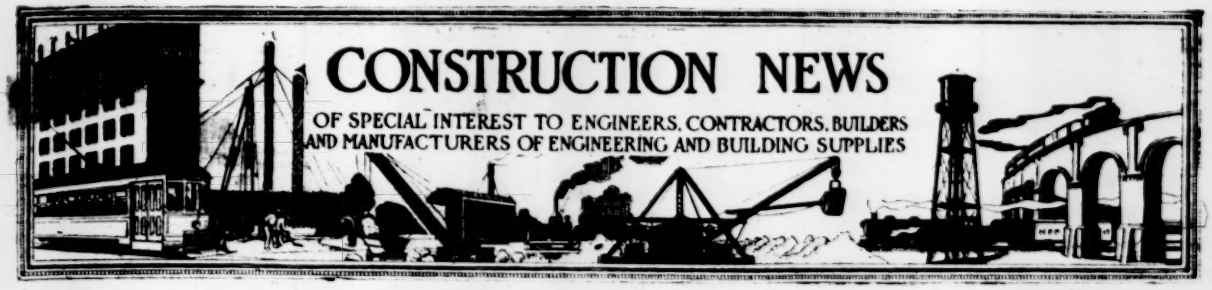
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 4	Hartsville, S. C.	July 29
	Adv. July 29.	
Aug. 4	Boston, Mass.	July 29
Aug. 25	Marcy, N. Y.	July 29
	Adv. July 22 and 29.	

SEWERS

July 30	St. George, S. I., N. Y.	July 15
July 30	South Beach, S. I., N. Y.	July 22
Aug. 2	Elmira, Ont.	July 29
Aug. 2	St. Paul, Minn.	July 29
Aug. 3	Kilbourn, Wis.	July 22
Aug. 4	Hartsville, S. C.	July 29
Aug. 5	Pine Island, Minn.	July 22
Aug. 9	Pontiac, Mich.	July 29
	Adv. July 22 and 29.	
Aug. 10	St. Louis, Mo.	July 29
Aug. 10	Darlington, Wis.	July 29
Aug. 11	Joliette, Que.	July 22
Aug. 12	Rush City, Minn.	July 29
Aug. 17	Armour, S. D.	July 29
	Adv. July 29.	

BRIDGES

July 31	Critz, Va.	July 22
Aug. 2	Florence, Ariz.	July 15
Aug. 3	Morgan, Ga.	July 15
Aug. 3	Fond du Lac, Wis.	July 29
Aug. 4	Duboistown, Pa.	July 15
Aug. 5	Athens, Ga.	July 29
Aug. 5	Georgia	July 29
Aug. 6	Dublin, Ga.	July 22
Aug. 6	Kenton, O.	July 29
Aug. 6	Cambridge, Minn.	July 29
Aug. 9	Missouri	July 29
Aug. 11	Augusta, Me.	July 29
	Adv. July 22 and 29.	
Aug. 11	Dungannon, Va.	July 29
Aug. 17	Rochester, N. Y.	July 22
	Adv. July 22 and 29.	
Aug. 20	Bristol, Conn.	July 15
Aug. 23	Claxton, Ga.	July 22
Aug. 24	Harrisburg, Pa.	July 29
	Adv. July 29.	

STREETS AND ROADS

July 30	Gibbstown, N. J.	July 22
July 31	New Mexico	July 22
July 31	Buffalo, N. Y.	July 29
Aug. 2	Covington, Tenn.	July 22
Aug. 2	Sabetha, Kan.	July 22
Aug. 2	Maryland	July 22
	Adv. July 22 and 29.	
Aug. 2	Connecticut	July 29
Aug. 2	Braddock, Pa.	July 29
Aug. 2	Portland, Ore.	July 22
Aug. 2	Olympia, Wash.	July 22
Aug. 2	Salt Lake City, Utah	July 22
Aug. 2	Greenfield, Ind.	July 22
Aug. 2	Johnstown, N. Y.	July 29
	Adv. July 29.	
Aug. 2	Chicago, Ill.	July 29
Aug. 3	Bessemer, Mich.	July 29
Aug. 3	Walker, Minn.	July 22
Aug. 3	Columbus, O.	July 22
Aug. 3	Grosse Pointe Park (Detroit P. O.), Mich.	July 15
Aug. 3	South Dakota	July 22
Aug. 3	Forest City, Ia.	July 29
Aug. 3	Colorado	July 29
Aug. 3	Sidney, Ia.	July 29
Aug. 3	Lehi, Utah	July 29
Aug. 3	Onaconia, S. D.	July 29
Aug. 3	New York, N. Y.	July 29
Aug. 4	Muscatine, Ia.	July 29
Aug. 4	Poplarville, Miss.	July 29
Aug. 4	South Dakota	July 22
Aug. 4	Louisburg, O.	July 29
Aug. 4	Rhode Island	July 29
	Adv. July 29.	
Aug. 4	Middletown, Del.	July 29
	Adv. July 29.	
Aug. 4	Ontario	July 29
Aug. 5	Fenton, Mich.	July 29
Aug. 5	Ft. Meyers, Fla.	July 29
Aug. 5	Groesbeck, Tex.	July 29
Aug. 5	Ft. Myers, Fla.	July 8
Aug. 5	Spencer, W. Va.	July 22
Aug. 6	South Dakota	July 22
Aug. 6	Logan, W. Va.	July 22
Aug. 6	Canton, O.	July 29
Aug. 7	Spur, Tex.	July 29
Aug. 9	South Pasadena, Cal.	July 22
Aug. 9	Missouri	July 29
Aug. 9	Maryland	July 29
	Adv. July 29.	
Aug. 10	Ludington, Mich.	July 29
Aug. 10	Hastings, Minn.	July 29
Aug. 10	Princeton, W. Va.	July 29
Aug. 10	St. Louis, Mo.	July 22
Aug. 11	Bloomfield, Ia.	July 29
Aug. 11	Belvidere, N. J.	July 29
	Adv. July 22 and 29.	
Aug. 14	Charleston, W. Va.	July 22
	Adv. July 22 a nd 29.	
Aug. 14	Opelousas, La.	July 15
	Adv. July 15 to 29.	
Aug. 14	Arkansas	July 29
Aug. 14	Michigan	July 29
Aug. 15	Monticello, Miss.	July 29
Aug. 18	Carrollton, Ga.	July 29
Aug. 18	Canyon, Tex.	July 29
Aug. 20	Ohio	July 29
Aug. 20	Amarillo, Tex.	July 29
Aug. 20	Amarillo, Tex.	July 22
	Adv. July 22 and 29.	
Aug. 24	Webster Springs, W. Va.	July 29
	Adv. July 29.	

EXCAVATION AND DREDGING

July 31	Madisonville, Ky.	July 22
	Adv. July 22 and 29.	
Aug. 2	Waterloo, Ia.	July 22
Aug. 3	Sioux City, Ia.	July 22
Aug. 3	Ft. Dodge, Ia.	July 29
Aug. 4	Trenton, Mo.	July 29
Aug. 4	Marengo, Ia.	July 8
Aug. 5	Phoenix, Ariz.	July 29
Aug. 5	Edwardsville, Ill.	July 29
Aug. 5	Milwaukee, Wis.	July 29
Aug. 5	Summer, Miss.	July 29
Aug. 7	Mt. Carmel, Ill.	July 22
Aug. 10	Waseca, Minn.	July 29
Aug. 14	Rockwell City, Ia.	July 29

INDUSTRIAL WORKS

Aug. 1	Cambridge, Mass.	July 8
Aug. 1	Ft. Williams, Ont.	July 22
Aug. 2	Cleveland, O.	July 22
Aug. 8	Brantford, Ont.	July 29
Aug. 11	Cleveland Heights, O.	July 29
Aug. 15	Port Arthur, Ont.	July 22
Sept. 1	Hutchinson, Kan.	Feb. 19

BUILDINGS

July 30	New York, N. Y.	July 22
July 30	New Wilmington, Pa.	July 22
July 31	Miniota, Man.	July 15
Aug. 1	Jamestown, N. D.	July 8
Aug. 1	Anderson, S. C.	July 15
Aug. 1	Baltimore, Md.	July 8
Aug. 2	Charleroi, Pa.	July 22
Aug. 2	Salina, Kan.	June 17
Aug. 2	Duluth, Minn.	July 29
Aug. 2	Emporia, Kan.	July 29
Aug. 2	Media, Pa.	July 8
Aug. 2	Detroit, Mich.	July 29
Aug. 2	Minneapolis, Minn.	July 22
Aug. 2	Sharon, Pa.	July 22
Aug. 2	Oil City, Pa.	July 22
Aug. 2	Zanesville, O.	July 22
Aug. 3	McCallsburg, Ia.	July 15
Aug. 3	Bristol, Conn.	July 22
Aug. 4	Mitchell, S. D.	July 29
Aug. 5	Manchester, Conn.	July 22
Aug. 9	Oberon, N. D.	July 8
Aug. 9	East Moline, Ill.	July 29
Aug. 9	McKeesport, Pa.	July 29
Aug. 10	Detroit, Mich.	July 29
Aug. 10	Chicago, Ill.	July 15
Aug. 10	Ashley, N. D.	July 29
Aug. 11	Detroit, Mich.	July 29
Aug. 13	Prospect, O.	July 22
Aug. 15	Montreal, Que.	July 22
Aug. 15	Verdun, Que.	July 29
Aug. 16	Sioux City, Ia.	June 17
Aug. 21	London, Ont.	July 22
Sept. 3	Ft. Wayne, Ind.	July 29

FEDERAL GOVERNMENT WORK

July 30	Widening and Deepening — New Orleans, La.	July 1
July 30	Remodeling Post Office— Battle Creek, Mich.	July 8
July 30	Superstructure — Wash., D. C.	July 8
Aug. 2	Lumber, etc.—Wash, D. C.	July 22
Aug. 3	Road Work—Oregon	July 29
Aug. 4	Remodeling Post Office — Augusta, Me.	July 15
Aug. 5	Remodeling Post Office — Jersey City, N. J.	July 22
Aug. 6	Riprap—Boston, Mass.	July 22
Aug. 9	Changes in Post Office—St. Louis, Mo.	July 29
Aug. 11	Temporary Storehouse — Spec. 4229—Pearl Harbor, H. T.	July 8
Aug. 11	Tracks—Spec. 4196—South Boston, Mass.	July 22
Aug. 11	Electric Underground Distributing System — Spec. 4240—Hampton Roads, Va.	July 22
Aug. 11	Boiler and Stokers—Spec. 4124—Portsmouth, N. H.	July 22
Aug. 11	Harbor Development—Spec. 4136—Great Lakes, Ill.	July 22
Aug. 16	Diversion Dam—Florence, Ariz.	July 15
Aug. 16	Remodeling Boiler — Ft. Stanton, N. M.	July 29
Aug. 18	Pier — Spec. 4165 — Guantanamo, Cuba	July 22
Aug. 24	Canal—Caldwell, Idaho	July 15

MISCELLANEOUS

Aug. 2	Portland Cement— — Detroit, Mich.	July 29
Aug. 2	Road Material—New York, N. Y.	July 29
Aug. 3	Heating System—Comstock, N. Y.	July 29
	Adv. July 29.	
Aug. 5	Dam—Montreal, Que.	July 29
Aug. 5	Wharf—Ottawa, Ont.	July 22
Aug. 7	Pier and Transit Sheds — Vancouver, B. C.	July 1
Aug. 9	Culverts—St. Joseph, Mo.	July 29
Aug. 17	Motor Driven Pump, Oil Switches, Air Compressor— Florence, Wis.	July 29
Aug. 17	Piles—Detroit, Mich.	July 29
	Adv. July 29.	

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Palmer—Thorndike Co. having plans prepared by Leary & Walker, engrs., Times Bldg., New Bedford, for reservoir and water supply system.

Mass., West Springfield (Springfield P. O.)—Town plans to install waterworks system. About $100,000. F. A. Barbour, 1121 Tremont Bldg., Boston, engr.

Pa., Phila—City plans to expend $250,000 on waterworks system, to include modifications at Queen Lane Pumping Sta. and improvements at Torresdale Filters and Lardners Point Pumping Sta., also increasing water supply for industries in West Philadelphia.

Tenn., Pulaski—City plans to sell $100,000 bonds to build water works system.

O., Lakewood (Cleveland P. O.)—City having surveys made for waterworks system and pumping station. E. A. Fischer, City Hall, engr.

Kan., Haven—City voted $70,000 bonds to build reservoir and cement pipe line. Rollins Eng. Co., 209 Ry. Exch. Bldg., Kansas City, Mo., engrs.

Kan., Minneola—City voted $45,000 bonds to build reservoir and cement pipe line. Rollins Eng. Co., 209 Ry. Exch. Bldg., Kansas City, Mo., engrs.

Neb., David City—City voted $30,000 bonds to build 500,000 gal. reservoir.

Mo., Fayette—City had plans prepared by Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., and soon receives bids building 14,000 ft. 8 in. c.i. or wood pipe line and earth filled dam. About $75,000. Noted June 24.

Tex., Alpine—City plans to build waterworks system. About $20,000. Bartlett & Raney, Moore Bldg., San Antonio, engrs.

Okla., Erick—See "Sewers."

Que., Montreal—See "Buildings".

BIDS DESIRED

Mass., Boston—Until Aug. 4, by Joint Bd. on Water Supply Needs and Resources, making wash borings in Barre, Oakham, Enfield and Greenwich; advertised in this issue.

N. Y., Marcy—Until Aug. 25, by State Hospital Comn., Capitol, Albany, building mechanical filtration plant and pumping station with building, reservoir, pipe line and appurtenances for Marcy Div., Utica State Hospital, here; advertised in this issue.

S. C., Hartsville—Until Aug. 4, by town, building 14,750 ft. 6 in. water mains. C. C. Wilson, 804 Palmetto Bldg., Columbia, engr.

Minn., Rush City—See "Sewers".

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Auburn**—Auburn Water Co. will take up present 4 in. mains and build 3 mi. 6 in. c.i. watermains. Work will be done by day labor.

★**Pa., Pittsburgh**—City let contract constructing 2 story, 28 x 60 ft., rein.-con. building for water purification plant, with capacity of 20,000 gal. per hour, to Cuthbert Bros. Co., Bessemer Bldg. About $35,000.

★**Mich., Ironwood**—City let contract laying pipe, also building pumping station, sub-stations, etc., to W. S. Peters, Wakefield, $50,230 and $62,613 respectively; centrifugal equipment, to Lee Courtenay Co., $27,600; valves, to Ludlow Valve Co., $3,131. Noted June 17.

★**Ill., Crystal Lake**—Bd. Local Impvts. let contract building extensions to main water supply system, to C. M. Porter, 111 Washington St., Chicago, $76,344. Noted June 17.

★**Minn., Columbia Heights**—City let contract extending waterworks system, to W. D. Lovell, 1415 8th St. S. E., Minneapolis. About $25,000.

★**N. D., Grand Forks**—Industrial Comn. of North Dakota, Bismarck, let contract building reservoir, filter plant, power house, etc., including boilers, stokers, etc., to Fegles Constr. Co., Minneapolis. Noted May 13.

★**Okla., El Reno**—City let contract furnishing labor and material improving waterworks system, to Merkle Mchy. Co., 408 Interstate Bldg., Kansas City, Mo. Noted June 24.

★**Okla., Madill**—City let contract building extensions to waterworks system, Sect. B, to Chicago Bridge & Iron Wks., Praetorian Bldg., Dallas, Tex., $18,540; Sect. C, to T. C. Brooks & Sons, Jackson, Mich., $53,833; Sect. D, to Merkle Mchy. Co., Interstate Bldg., Kansas City, Mo., $29,875. Noted June 10

★**Cal., Hayward**—City let contract building rein.-con. reservoir, to E. H. Martin, Synd. Bldg., Oakland, $15,974; excavation work, to Carlin Grading Co., 110 Jessie St., San Francisco, at $1.25 per yd., total $3,875.

Sewers

PROPOSED WORK

N. J., Egg Harbor City—City having plans prepared by Remington & Vosbury, engrs., 6th and Market Sts., Camden, for sewage disposal plant and storm and sanitary sewerage system, involving 12 mi. terra cotta pipe. About $175,000.

N. J., Westfield—Boro. having survey made by Remington & Vosbury, engrs., 6th and Market St., Camden, for sanitary sewerage system, involving 20 mi. terra cotta pipe.

Pa., Phila.—City plans to build sewers in B St. from Roschill St. to Erie Ave.; Erie Ave. from B to D Sts.; Bingham St. from Tacony Creek to Adams Ave.; 51st St. from Grays Ave. to Schuylkill River; Godfrey Ave. from 10th to Broad Sts.; 9th St. from Champlost Ave. to Green Lane; Summerdale Ave. from Adams Ave. to Phila. & Reading R.R.; intercepting sewer along Tacony Creek in I St.; H St. and Tacony Creek Park from Ramona Ave. to Roosevelt Blvd.; extension of Bigler and Packer St. Sewer, also 7 mi. branch sewers. About $1,200,000.

O., Akron—City had plans prepared for building 2¼ mi. of sewers. About $75,000. J. E. Root, supt. Dept. of Sewage.

O., Marion—City retained G. B. Gascoigne, consult. engr., 1449 East 116th St., Cleveland, to prepare plans for sewerage and sewage disposal improvements. About $600,000. T. S. Cathers, city engr.

Mich., Detroit—City having plans prepared building and backfilling Lateral Sewer 3,306, Connors, Lenox, De Buck and Forest Sts.; 3,307, Raymond, Clarion, Georgia and Edgewood Sts.; 3,309, Erwin, Holcomb, Georgia and Edgwood Sts.; 3,310, Livernois, Canterbury and Pembroke Sts. and Seven Mile Rd.; 3,311, Jos. Campau, Mitchell, Davison and Cody Sts.; 3,312, Jos. Campau, Mitchell, Cody and Halleck Sts.; 3,313, Jos. Campau, Mitchell, Carpenter and Halleck Sts.; 3,314, Arlington, Maine, Carpenter and Davison Sts.; 3,315, Riopelle, Dequindre and Davison Sts.; 3,316, Greeley, Orleans, Davison and Victor Sts.; 3,280, Gratiot, Roseberry and Rosemary Sts., involving 10-24 in. vitr. crock, etc. C. W. Hubbell, city engr.

Wis., Whitefish Bay (Milwaukee P. O.)—City having plans prepared for concrete sewage disposal plant, filter beds and syphons. About $20,000. Parsons & Orbert, 627 M. & M. Bank Bldg., Milwaukee, engrs.

Neb., Omaha—See "Industrial Works."

Okla., Erick—City plans to install sewerage system, also enlarge waterworks and electric light plant. About $120,000. J. A. Richardson, mgr.

Okla., Ponca City—City election Aug. 3, to vote on $50,000 bonds to build storm sewers in various streets. Engineer not decided.

Ore., Portland—City had plans prepared and soon receives bids laying sewers in Pacific St. from East 63rd to East 65th Sts., Jarrett St. from East 6th to East 9th Sts., Church St. from East 7th to East 9th Sts., Sumner St. from Serene Park to East 9th Sts., East 9th St. from Sumner St. to Ainsworth Ave., East 36th St. near Shiller St., cost $31,950; building Morse St. Trunk Sewerage System, $31,529; 41st Ave. S. E. and 49th St. S. E. Sewerage System, $5,029; 67th St. S. E. and 45th Ave. S. E. Sewerage System, $20,616. O. Laurgaard, city engr.

Cal., Stockton—City having preliminary estimates prepared for building storm sewers in various streets. W. B. Hogan, city engr.

Que., Montreal—See "Buildings."

Ont., Toronto—City plans to build 900 ft. trunk sewer in York St. from King to Front Sts., 6 ft. diameter, concrete or brick. About $29,668. R. C. Harris, city engr.

BIDS DESIRED

S. C., Hartsville—Until Aug. 4, by town, building 10,200 ft. 8 and 10 in. sewer. C. C. Wilson, 804 Palmetto Bank Bldg., Columbia, engr.

Mich. Pontiac—Until Aug. 9, by E. Leubke, city clk., building trunk sanitary sewers; advertised in this issue.

Wis., Darlington—Until Aug. 10, by J. Swift, city clk., furnishing and laying 8,650 ft 10-24 in. vitr. storm sewers, 4 catchbasins, etc., in Main and Galena Sts. About $25,000. W. F. Reichardt, Watertown, engr.

Minn., Rush City—Until Aug. 12, by City Clerk, building sanitary sewerage system and laying water mains. About $90,000. J. F. Druar, 514 Globe Bldg., St. Paul, engr. Noted May 27.

Minn., St. Paul—Until Aug. 2, by H. W. Austin, city purch. agt., building sewers in Mississippi River Blvd. Capitol Pl., Dale, Gaultier, Clifton and Hyacinth Sts., Pleasant, Asbury, Simpson, Taylor and Weide Aves. O. Claussen, city engr.

Mo., St. Louis—Until Aug. 10, by Bd. Pub. Serv., building sewers, including inlets, catchbasins, etc., in 10,665 ft. Glaise Creek Sewer Dist. 17. About $70,000. W. W. Horner, City Hall, engr.

S. D. Armour—Until Aug. 17, by F. Felton, city aud., building 8 and 10 in. service or lateral sewers in Spark, Main and Braddock Sts.; advertised in this issue.

Ont., Elmira—Until Aug 2, by J. H. Rumpel, clk, supplying and laying 9,400 ft. 8-15 in. vitr. sewer pipe, with manhole covers, castings, etc. About $30,000. H. Johnston, 103 Frederick St., Kitchener, engr. Noted May 6.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., West Roxbury (Boston P. O.)—City of Boston received bids July 21, building Saville and Wren Sts. Sewerage System here, from J. Barletta, $39,328; J. Todesco, Roslindale, $42,783; F. Drinkwater, $44,51[illegible]

★**N. J., Haddonfield**—City let contract building 2 sewage disposal plants and laying 1 mi. terra cotta sewer pipe, to W. P. Corson, 4141 Sycamore St., Camden. About $130,000.

★**N. J., Irvington** (Newark P. O.)—See "Streets and Roads".

★**Pa., Phila.**—City let contract building sewer in Octalaune and 18th Sts. and 66th and 67th Aves., to A. J. Jaffola, 139 South 50th St., $130,000; branch sewer in Olney Ave. from 11th St. to Wayne Ave., to J. J. McHugh, 1430 South Penn Sq., $30,000. Noted July 8.

★**S. C., Kingstree**—Comrs. Williamsburg Co. let contract building 2¾ mi. causeway through Black River Swamp on road from here to Manning, involving 98,000 cu.yd. excav., to C. Campbell, Foreston. About $34,300.

★**O., Xenia**—City let contract building sewer extension in Dists. 1, 2, 3, 5 and 6, to J. C. Mercer & Son, Piqua, 28,628. Noted April 29.

★**Ind., Wabash**—See "Streets and Roads."

Mich., Detroit—City received bids July 29, furnishing labor and material building (a) Lateral Sewer 3,173, (b) 3,295, (c) 3,296, (d) 3,297, (e) 3,302, (f) 3,304, (g) Coventry Blvd. Arm, (h) John S. St. Arm (i) Charleston Ave. Arm, from Oakwood Constr. Co., 165 Fort Blvd., (a) $41,000 (b) $6,125, (c) $11,000, (d) $17,511, (e) $9,370; Western Constr. Co., 1208 Ford Bldg., (b) $4,935, (c) $10,358; N. Mancini, 580 Concord Ave., (e) $4,600, (f) $4,670; A. H. Haynes, 70 Davenport Ave. (e) $4,775, (f) $4,825; Jaynes & Affeld, 1208 Ford Bldg., (g) $222,485, (h) $59,292, (i) $69,200; J. Porath, 23 McGraw Bldg., (g) $210,492, (h) $63,616, (i) $69,139; Lennane & McIlvenna, 1205 Book Bldg., (g) $205,877, (i) $71,990; W. Blanck & Co., 827 Ford Bldg., (h) $62,797. Noted July 22.

★**Mich., Detroit**—City let contract to N. Mancini, 580 Concord Ave., building Springle Ave. Sanitary Sewer, $57,750; to W. Blanck & Co., 827 Ford Bldg., John R. Arm $57,145; to J. Porath, 23 McGraw Bldg., Swift Ave. Arm, Puritan Ave. Arm and Oakland Ave. Arm, $66,550, $65,912 and $54,840 respectively. Noted July 15.

★**Wis., Milwaukee**—Sewerage Comn. let contract building 595 ft. 30 in. c.i. syphon and 2 valve chambers in Concord and Auer Aves., to Knowles & Fehr, 314 North Dearborn St., Chicago, $47,030.

★**Wis., Milwaukee**—Sewerage Comn. received only bid July 22, laying 860 ft. c.i. pipe syphon and 1 valve chamber in Bradford Ave and Wright St., from Wenzel & Henoch, 498 27th St., $27,040.

Sewers (Continued)

★**Col., Ft. Collins**—City let contract building storm sewers in Whitcomb and Whedbee Sts. and Oak and Laurel Sts. to M. Johnson & Co., Boulder. About $102,000.

Ore., Portland—City received bids July 14, furnishing labor and material building (a) Killingsworth Ave. and East 29th St. Sewerage System, (b) Mohawk and Jersey Sts., Sewerage System, (c) sewer in East 76th St. from point 260 ft. south of East Burnside to East Glisan Sts., all cement, from Portland Realty & Trust Co., Ry. Exch. Bldg., (a) $22,663, (b) $4,872; J. Keating, Portland, (a) $26,201, (b) $5,008, (c) $7,443; Azar & Co., Portland, (b) $4,758, (c) $6,471.; Braley & Cusick, Vancouver, Wash., (b) $4,857, (c) $6,796; Mehemarie & Co., Portland, (b) $5,171, (c) $6,944.

Bridges

PROPOSED WORK

Me., Kittery—See "Portsmouth, N. H."

N. H., Portsmouth—Piscataqua River Bridge Comn. having plans prepared by Strauss Bascule Bridge Co., engrs., 104 South Michigan Ave., Chicago, for superstructure of Interstate Highway and Electric Ry. Bridge, over Piscataqua River, connecting Portsmouth and Kittery, Me. to have three 300 ft. spans, center one being Strauss double leaf bascule. Cost will be borne by New Hampshire, Maine and U. S. Navy Dept.

N. J., Newark—Essex Co. (Newark) and Morris Co. (Morristown) soon receives bids building Hanover, Cook and Columbia Bridges, over Passaic River, rein.-con. and steel. About $70,000. F. J. Reimer, co. engr.

Ill., Carbondale—State Highway Dept., Springfield, opens bids about Aug. 15, building 410 ft. bridge over Big Muddy River. L. Schwartz, dist. engr.

Kan., Chapman—Comrs. Dickinson Co. (Abilene) having plans prepared and soon receive bids building one span rein.-con. arch bridge, 150 ft. long, 18 ft. wide, near here. About $40,000. L. J. Reese, co. engr. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., designing engrs.

Kan., Junction City—Comrs. Geary Co. (Junction City), having plans prepared and soon receive bids building one span rein.-con. arch bridge, 150 ft. long, 18 ft. roadway, near here. About $40,000. G. A. Russell, co. engr. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., designing engrs.

Kan., Wakarusa—Comrs. Shawnee Co. (Topeka), having plans prepared and soon receive bids building one span rein.-con. arch bridge, 130 ft. long, 20 ft. wide, near here. About $40,000. J. E. Williams, 1311 Clay St., co. engr. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., designing engrs.

Kan., Wichita—City election Aug. 12, to vote on $175,000 bonds to build bridge over Big River on Maple St. P. L. Brockway, city engr.

Mo., Forsythe—State Highway Dept., Jefferson City, plans to build 18 ft. bridge, over White River, here. About $72,600.

BIDS DESIRED

Me., Augusta—Until Aug. 11, at office of Supervising Engineer, Dept. Pub. Wks., Quebec, Que., Canada, building substructure and superstructure of Edmundson N. B.-Madawaska, Me., International Bridge; advertised in this issue.

Pa., Harrisburg—Until Aug. 24, by T. W. Templeton, supt. pub. grounds & buildings constructing Soldiers and Sailors Memorial Bridge, in Capitol Park; advertised in this issue.

Va., Dungannon—Until Aug. 11, by Bd. Supervs. Scott Co. (Gate City), building 71½ ft. steel beam bridge over Little Stony Creek on Hanging Rock Rd., near here.

Georgia—Until Aug. 5, by State Highway Dept., at div. office, Americus, building 120 ft. rein.-con. bridge, Ben Hill Co., involving 0.5 acres clearing and grubbing 1,160 lin. ft. timber piling, 167.58 cu.yd. Class "A" and 111.32 cu.yd. Class "B" concrete, 40,320 lb. reinforcing steel, etc.; 300 ft. bridge Irwin Co., 2,080 lin. ft. timber piling, 404.76 cu.yd. Class "A" and 100.76 cu.yd. Class "B" concrete, 91,742 lb. reinforcing steel, etc. W. C. Cays, Jr., div. engr.

O., Kenton—Until Aug. 6, by D. C. Jones, and Hardin Co., furnishing labor and material building 50 ft. span steel girder bridge with rein.-con. flooring.

Ill., Edwardsville—See "Excavation and Dredging."

Wis., Fond du Lac—Until Aug. 3, by Bd. Pub. Wks., building 107 ft. bridge, on Scott St., Plan "A" plate girder, "B" concrete arch. Pinney & Scarliffe, 1200 Sycamore St., Milwaukee, engrs. Noted May 6.

Minn., Cambridge—Until Aug. 6, by Comrs. Isanti Co., building State Bridge 3332, to have three 18 x 75 ft. truss spans on rein.-con. abutments and gravity piers. About $25,000. P. M. Torell, Cambridge, engr.

Missouri—Until Aug. 9, by State Highway Bd., at St. Joseph, building skew slab superstructure and 4 rein.-con. pile bents over Contrary Creek, Sta. 64 plus 32, to have three 27 ft. clear spans, involving 28,000 lb. steel reinforcement, 10 cu.yd. Class "A" and 215.7 cu.yd. Class "B" concrete, cost $9,491; through girder superstructure and 2 rein.-con. abutments over Rushville Drainage Ditch, Sta. 649 plus 51, to have one 40 ft. clear span 25,105 lb. steel reinforcement, 6.1 cu.yd. Class "A" and 244.1 cu.yd. Class "B" concrete, $9,887; deck girder superstructure, 2 rein.-con. abutments and 1 temporary bridge, over Drainage Ditch, Sta. 229, to have one 24 ft. clear span, 10,730 lb. steel reinforcement, 5.5 cu.yd. Class "A" and 109.9 cu.yd. Class "B" concrete, $4,788; skew slab superstructure, 2 rein.-con. abutments and 1 concrete pier over Drainage Ditch, Sta. 515 plus 65, to have two 19 ft. clear spans, 8,596 lb. steel reinforcement, 9.9 cu.yd. Class "A," 104 cu.yd. Class "B" and 192 cu.yd. Class "C" concrete, $4,869; skew slab superstructure, 2 rein.-con. abutments and 2 piers, over Drainage Ditch, Sta. 357 plus 90, to have three 15 ft. clear spans, 11,840 lb. steel reinforcement, 9.8 cu.yd. Class "A," 123.5 cu.yd. Class "B" and 44.8 cu.yd. Class "C" concrete, $6,381. Above projects in Buchanan Co. Federal Aid Project 49, Sect. B and all to have 18 ft. clear roadway.

Que., Contrecoeur—Until Sept. 2, by S. Cormier, secy.-treas., building steel bridge over River Aulnaies, on the main road. About $150,000. Engineer, c/o Dept. Pub. Wks., Quebec.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. H., Manchester—M. F. Shea, dir. Bd. Pub. Wks., City Hall, received bids July 6, building bridge over Merrimack River, from Conners Bros. Co., 15 West 91st St., New York City, $152,000; United Constr. Co., 24 James St., Albany, N. Y., $242,700. Noted June 17.

★**N. H., Scott**—Boston & Maine R. R., North Sta., Boston, let contract building Bridge No. 131, concrete and stone, here, to A. Michelini, Reading, Mass. About $28,000.

★**Vt., Orleans**—Boston & Maine R. R., North Sta., Boston, let contract building concrete and stone bridge, here, to J. W. Buswell, Salisbury, Mass. About $25,000.

★**Mass., Holden**—Boston & Maine R. R., North Sta., Boston, let contract building Bridge 172, concrete, to W. H. Pike & Sons, 264 Essex St., Lawrence. About $33,000.

★**Conn., Stamford**—Bd. Selectmen let contract building 102 ft. rein.-con. bridge, 38 ft. wide, over Rippowam River, on Greenwich Ave., to Genovese Bros., Main and Spruce Sts. About $35,000. Noted July 1.

★**Pa., New Castle**—Lawrence Co. let contract building through plate girder bridge encased in concrete, over Neshannock Creek, on South Jefferson St., to have 14 ft. C to C girders and 30 ft. brick roadway, to Standard Eng. Co., Toledo, O., $151,617.

★**O., Defiance**—Defiance Co. let contract building 200 ft. Brunersburg Bridge, 22 ft. wide, over Tiffin River, with 3 arches, to Roberts Supply Co., 419-21 Oper Blk., $41,777.

★**Mich., Detroit**—Wayne Co. let contract fabricating and erecting 120 ft. low truss, 24 ft. roadway and two 5 ft. sidewalks for State Reward Bridge 5, to Amer. Bridge Co., Beecher St. and along tracks of Michigan Central R.R., $25,429; building rein.-con. floor on same, to G. F. Bristol, Highland Park, $2,500. Noted March 11.

★**N. Y., Schenectady**—New York State Canal Bd., Albany, let contract building foundation and pier for Great Western Gateway Bridge connecting Schenectady and Scotia, to Amer. Pipe & Constr. Co., 112 North Broad St., Phila., $961,963.

★**Mich., Detroit**—Wayne Co. let contract building 2 rein.-con. abutments for State Reward Bridge 7, also rein.-con. floor on same, to G. F. Bristol, Highland Park, $19,112 and $2,500 respectively; fabricating and erecting 120 ft. truss, to Amer. Bridge Co., Beecher St. and along tracks of Michigan Central R.R., $19,309. Noted March 11.

★**Illinois**—Dept. Pub. Wks. and Bldgs., Springfield, let contract building bridges on following sections of Vandalia-Cairo Highway, Sects. 26B and 29B, Marion Co., Sects. 32B and 33B, Washington Co., to H. G. Halleck, Rushville, $57,482; Sect. 24B, Fayette Co., Sects. 25B, 27B and 28B, Marion Co., 30B, Marion and Washington Counties, and Sect. 31B, Washington Co., to W. C. Johnson, Belleville, $119,667. Noted July 1.

★**Ia., Chariton**—Lucas Co. let contract building 120 ft. concrete skew high truss bridge, 18 ft. wide, to Pittsburgh-Des Moines Steel Co., Des Moines. About $28,700. Noted April 22.

Ia., Des Moines—Polk Co. received bids July 15, building one 18 x 24 ft. concrete slab and one 18 x 120 ft. steel high truss span bridges, also 6 concrete box culverts, from 2 x 2 ft. to 6 x 6 ft., from Alexander & Higbie, 2733 6th Ave., $37,673; F. E. Marsh & Co., Jefferson, $39,866; Koss Constr. Co., 2818 5th St., $39,875. Work involves 635 cu.yd. rein.-con., 2,240 lin.ft. wooden piling, 43,087 lb. steel bars and 92,600 lb. structural steel.

★**Ia., Nevada**—Bd. Supers. Story Co. let contract building steel plate girder bridge on concrete piers and abutments over Squaw Creek on Lincoln Way, to Cole Bros., Ames, $15,258. Noted June 17.

★**Ia., Sigourney**—Keokuk Co. let contract building 20 x 20 ft. rein.-con. slab bridge and several rein.-con. box and circular culverts, varying in size from 2 x 2 ft. to 6 x 6 ft., to J. Ritzinger, Sigourney. About $35,200. Noted April 1.

★**Ia., Sioux City**—Woodbury Co. let contract building 8 concrete and steel bridges and culverts, to Pickus Eng. & Constr. Co., Sioux City, $33,048.

★**Minn., Minneapolis**—City will build 820 ft. rein.-con. bridge over Lake Nokomis, to have forty 20-ft. spans, 10 ft. roadway, and two 6 ft. walks. About $100,000. Work will be done by day labor.

★**Kan., Oswego**—Labette Co. let contract building 15 concrete bridges, to M. E. Gilfoz, Monnett, Mo., $28,999. Noted July 8.

Cal., Oroville—State Highway Comn., 515 Forum Bldg., Sacramento, received bid July 19 building substructure and approach spans for bridge across Feather River, near here, Federal Aid Project 61, from G. Pollock Co., Forum Bldg., Sacramento, $231,830. Work involves 1,850 cu.yd. mass of pier bases (including crib, caisson or cofferdam), at $90 per cu.yd., 1,880 cu.yd. Class "C" portland cement concrete in pier shafts (excepting top 5 ft.), $26, and 470 cu.yd. Class "A" portland cement concrete in pier tops, approach spans and bents, $35. Noted July 8.

Streets and Roads

PROPOSED WORK

Conn., New Haven—City plans to pave 32,000 sq.yd. various streets, concrete, asphalt or bituminous macadam. F. L. Ford, city engr.

N. J., Bayonne—City having plans and specifications prepared for improving West 10th St. from Ave. A to Ave. C, rein.-con. About $50,000. C. O'Neil, clk.

N. J., East Orange—Essex Co. (Newark) soon receives bids paving Sanford St., here, involving 1,000 ft. bitulithic. Cost to exceed $25,000. F. J. Reimer, Newark, co. engr.

Pa., Phila.—City plans to expend $1,475,000 on street improvements, of this amount $500,000 will be devoted to grading 9½ mi., $375,000 for paving 12½ mi. with asphalt and $62,500 each for paving 1½ mi. granite block and 1½ mi. with vitr. block, also $150,000 for improving 4½ mi. county roads with bituminous macadam. An important feature of this work is the extension of Delaware Ave. between Fairmount Ave. and Laurel St., which will involve the demolition of considerable property and repaving to its full width with granite block.

W. Va., Huntington—City soon receives bids widening 5th Ave. from 8th to 9th Sts. About $30,000. A. B. Maupin, Huntington, engr.

W. Va., Keyser—Comrs. Mineral Co. soon receive bids paving 2½ mi. road from Blaine to Elk Garden, bituminous macadam. About $55,000. S. H. Lee, co. engr.

Streets and Roads (Continued)

W. Va., Lewisburg—Greenbrier Co. plans election soon to vote on $102,500 bond issue, to improve Blue Sulphur Turnpike from Monroe Co. line to Meadow Bluff Dist. line. F. R. Rader, Lewisburg, engr.

W. Va., Madison—Boone Co. soon receives bids grading 8 mi. Charleston-Logan Turnpike, Peytona Dist. Election Aug. 3 to vote on $67,000 bonds for project. J. P. Blundon, co. engr.

W. Va., Madison—Comrs. Boone Co. rejected bids received July 12, grading 3.3 mi. road, involving 33,000 cu.yd. earth excav., 310 cu.yd. concrete and 924 ft. vitr. concrete pipe. P. Blundon, co. engr. Noted June 17.

W. Va., Marlington—Pocahontas Co. voted $300,000 bonds to grade 10 mi. Durbin-Bartow-Arbovale Rd. and 7 mi. Greenbank-Dunsmore Rd. S. L. Brown, clk.

W. Va., Martinsburg—Comrs. Berkeley Co. soon receive bids hard surfacing 3 mi. road between Cumberland Valley Bridge and Wellton, Hedgeville Dist., Kentucky rock asphalt. About $63,000. C. N. Stuckey, Martinsburg, engr.

W. Va., Parsons—Tucker Co. plans to pave 1.9 mi. Thomas-Oakland Rd., concrete. About $50,000. J. J. Taney, co. engr.

W. Va., Union—Comrs. Monroe Co. soon receive bids grading 6½ mi. Wolf Creek-Alderson Rd. About $53,000. J. H. Sydenstricker, co. engr.

S. C., Kingstree—Comrs. Williamsburg Co. received no bids July 7, grading, surfacing and building bridges on 8.5 mi. sand clay road, Federal Aid Project 80. Work will be readvertised. J. M. Martin, co. engr. Noted July 1.

O., Bucyrus—City rejected bids July 6, improving Lane and East Sts. Noted July 1.

O., Canton—City plans to grade, curb, drain, build storm sewers, sidewalks and pave 1,360 ft. Elgin Ave., N. W., 30 ft. wide, involving 4,715 sq.yd. each vitr. brick and vertical fibre on 6 in. concrete base, 2,390 lin.ft. stone or concrete curbing, 13,065 sq.ft. concrete and stone sidewalks, 6,106 cu.yd. embankment, cost $51,969; repave, redress, reset stone curbing, lay concrete sidewalks, grade and drain 2,100 ft. Market Ave., S., 50-69 ft. wide, 12,750 sq.yd. vitr. brick on 6 in. concrete base, 7,430 sq.yd. asphalt, 1,130 lin.ft. concrete curbing, 5,292 cu.yd. earth excav., $122,062; 5,058 ft. Tuscarawas St., E., 46-52 ft. wide, 26,987 sq.yd. each vitr. brick and vertical fibre on 6 in. concrete base, 13,465 yd. each vitr. brick and vertical fibre on 6 in. concrete base, 13,465 sq.yd. asphalt, 1,600 lin.ft. protected concrete curbing, 3,114 sq.ft. brick guttering, 1,820 sq.ft. concrete sidewalks, 7,809 cu.yd. earth excav., $201,406. Alternate bids on asphaltic concrete, bitulithic, vitr. brick and sheet asphalt paving. W. E. Sarver, city engr.

O., St. Clairsville—Belmont Co. rejected bid received for paving 11,418 ft. Colerain Pike, 16 ft. wide, concrete. About $72,000. Noted June 24.

O., St. Clairsville—Belmont Co. rejected only bid received July 19, paving 2 mi. Flushing-Union Twp. Rd., 16 ft. wide, vitr. brick on concrete base. Noted July 8.

O., Steubenville—City plans to pave 18,500 sq.yd. 7th St. from South to Buckeye Sts., involving vitr. brick, sand cement cushion and cement filler. About $161,759. G. McConnell, Steubenville, engr.

O., Toronto—City rejected only bid received July 19, furnishing labor and material for grading, curbing and paving Cleveland, Freeman and Volmer Sts. Work will be readvertised. M. Boyd, Toronto, engr. Noted July 8.

Minn., Alexandria—Douglas Co. received no bids July 12, grading and graveling 7 mi. Federal Aid Project 131. Project abandoned.

Minn., Fairmont—Martin Co. rejected bids July 12 grading and graveling 6 mi. Federal Aid Project 71, 24 ft. wide. Project abandoned.

Neb., Omaha—Comrs. Douglas Co. plan to grade and pave 4 mi. Ridge Rd. from South Omaha to Bellview, probably 30 ft. wide, concrete. About $160,000.

South Dakota—State Highway Comn., Pierre, will receive bids in 1 or 2 months, grading and draining 13.11 mi. Yankton-Vermillian Rd., 36 ft. wide, Yankton Co., involving 59,000 cu.yd. excav., 14,000 lb. reinforcing steel, 170 cu.yd. concrete for culverts, etc. About $55,000. F. S. Peck, state highway engr.

Missouri—State Highway Dept., Jefferson City, plans to build 4.84 mi. Sedalia-Springfield Rd., 24 ft. wide, Dallas Co., involving 17,000 cu.yd. earth excav., 25,555 sq.yd. gravel surfacing and culverts; 20 mi. St. Louis-Springfield Rd., 24 ft. wide, Phelps Co., 70,000 cu.yd. earth and 5,000 cu.yd. rock excav., 42,320 sq.yd. gravel surfacing, 960 lin.ft. stone underdrain, 625 cu.yd. rip rap, culverts, one 48 ft. and one 36 ft. span bridges; 6.5 mi. Monroe City-Hunnewell Div. of Pikes Peak Ocean to Ocean Highway, 24 ft. wide, Marion Co., 33,500 cu.yd. earth excav., 34,320 sq.yd. gravel surfacing, 15 culverts, one 30 ft. span bridge; 2.33 mi. Villa Ridge Cut off, 24 ft. wide, 8,000 cu.yd. earth excav., 12,310 sq.yd. gravel surfacing, 18 culverts; 7.64 mi. Jamesport-Trenton Rd., 24 ft. wide, Davies Co., grading and building bridges; 9 mi. Springfield-Hollister Rd. (Spokane Special Rd. Dist.) 24 ft. wide, Christian Co., 22,500 cu.yd. earth excav., 23,311 sq.yd. gravel surfacing and culverts; 6.5 mi. Springfield-Hollister Rd. (Selmore-Highlandville Special Rd. Dist.), 24 ft. wide, Christian Co., 17,788 cu.yd. earth excav., 34,320 sq.yd. chat surfacing, culverts; 7 mi. Joplin-Siloam Springs Rd. (Elk River Special Rd. Dist.), 24 ft. wide, McDonald Co., 12,000 cu.yd. earth and 666 cu.yd. rock excav., culverts, 2 bridges, 1 to have two 150 ft. and other two 16 ft. spans; 4.72 mi. McNutt Special Rd. Dist., 24 ft. wide, St. Clair Co., 14,830 cu.yd. earth excav., 500 cu.yd. overhaul, 44,545 sq.yd. 2 course gravel surfacing, 3.8 cu.yd. Class "C" concrete masonry; 1 mi. Fulton-Mexico Rd., 24 ft. wide, Calloway Co., 18,000 cu.yd. earth and 2,000 cu.yd. rock excav., 9,400 sq.yd. gravel surfacing, 7 culverts and 1 bridge.

Missouri—State Highway Dept., Jefferson City, plans to build 8.24 mi. road between Potosi and Berryman, 20 ft. graded earth, Washington Co., cost $43,093; 4.25 mi. gravel road betwen Sequioto Park and Christian Co. line, 15 ft. wide, Greene Co., $21,250; 9 mi. gravel road between Dudley and Dexter, 16 ft. wide, Stoddard Co., $90,000.

Missouri—State Highway Dept., Kennett, received no bids July 16, building 8.62 mi. Dexter-Malden-Kennett Rd., 24 ft. wide, Federal Aid Project 26, Dunklin Co. About $107,288. Noted July 8.

Mo., New Madrid—New Madrid Co. received no bids July 5, improving 19.3 mi. State Rd. Project S. 18.93, 24 ft. wide, involving 75,685 cu.yd. earth excav., 24,359 cu.yd. borrow, 36.3 cu.yd. Class "B" and 121.9 cu.yd. Class "C" concrete masonry, 2,520 lb. reinforcements for concrete masonry, 930 lin.ft. 12-24 in. vitr. pipe culverts. About $57,186. C. V. Hansen, highway engr. Noted June 17.

Mo., St. Louis—City having plans prepared for improving various streets. About $360,000. Noted May 27.

Tex., Angleton—Brazoria Co. having plans prepared grading, surfacing with sand and building timber bridges and trestles on 5.73 mi. Highway 36 in Rd. Dist. 24, 16 ft. wide, involving 11 acres clearing and grubbing, 54 cu.yd. earth excav., 7,432 cu.yd. sand, 48,437 ft. timber and 1,520 lin.ft. timber piling. About $39,964. W. A. Randle, Freeport, engr.

Tex., Breckenridge—Stephens Co. having plans prepared grading, surfacing and draining 31.8 mi. Highway 1, Federal Aid Project 199, from Palo Pinto to Shackelford Counties, 16, 18 and 20 ft. wide, involving 70 acres clearing and grubbing, 255,000 cu.yd. earth borrow, 252,000 cu.yd. earth overhaul, 273,448 sq.yd. bituminous, 100,000 cu.yd. crushed rock, 68,288 sq.yd. 2 in. bituminous concrete, 1,800 cu.yd. Class "A", 1,500 cu.yd. Class "B" and 800 cu.yd. Class "C" concrete. About $1,251,645. Nagle, Witt & Rollins, Amer. Exch. Natl. Bank Bldg., Dallas, engrs.

Tex., Henderson—Rusk Co. having plans prepared grading, surfacing and building rein.-con. bridges and culverts on 37.71 mi. Highways 26 and 43, involving 119 acres clearing and grubbing, 14.78 mi. sodding slopes, 240,000 cu.yd. earth excav., 1,581 lin.ft. 24-36 in. pipe culverts, 215,000 lb. reinforcing steel, 1,675 cu.yd. Class "A", 795 cu.yd. Class "B" and 121 cu.yd. Class "C" concrete, etc. About $254,215. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Utah, Ogden—City plans to pave various streets in Dist. 131, involving 13,047 sq.yd. asphalt or bitulithic on concrete base, cost $47,830; Washington Ave. from Ogden River to city limits, 38,135 sq.yd. concrete or bitulithic, 3,470 lin.ft. curbing and guttering, $182,500. W. M. Tracy, City Hall, engr.

Utah, Springville—City plans to pave 2.1 mi. Main St., 18 ft. wide, 7 in. concrete. About $65,000. C. A. Swan, Provo, engr.

Utah, Wellsville—City rejected bids July 10, furnishing labor and material building 32,000 lin.ft. 4-6 ft. walks. T. H. Humpheries, Logan, engr. Noted June 17.

Cal., National City—City voted $180,000 bonds to pave 7.5 mi. various streets, 16-19 ft. wide, 5 in. cement concrete.

Que., Laprairie—Town Council soon receives bids building 5 mi. concrete roadway, 14 ft. wide. About $150,000.

Que., Outremont—City plans to pave Cote St., Catherine Rd. About $75,000.

Ont., Toronto—City plans to pave and curb 1¼ mi. Bloor St. from Quebec Ave. to Runnymede Rd., 48 ft. wide, involving 16,000 sq.yd. asphalt. About $69,263. R. C. Harris, city engr.

BIDS DESIRED

Rhode Island—Until Aug. 4, by State Bd. Pub. Rds., State House, Providence, building 2 mi. state highway, beginning at Pawtucket City Line and extending west to Mineral Springs Ave., North Providence; advertised in this issue.

Connecticut—Until Aug. 2, by C. J. Bennett, state highway engr., Hartford, building 11,400 ft. 3 in. bituminous nativestone macadam over 7 in. broken stone base on Columbia-Vernon Highway, cost $100,000; 3,650 ft. Columbia Highway and 25,000 ft. Brooklyn-Hampton Highway.

N. Y., Buffalo—Until July 31, by Dept. Pub. Wks., paving Warwick Ave. from Grider St. to Wyoming Ave., Ryan St. from southwesterly curb line of Seneca St. to point 500 ft. southwesterly, Maywood Pl. from Beyer Pl. to Seneca St., repaving Spring St. from Genesee to Cherry Sts., Cypress St. from Michigan Ave. to Pine St., Franklin St. from Allen to North Sts., Dewitt St. from Forest Ave. to Fernwood Pl., Bailey Ave. from Bway. to Genesee St. W. Kreinheder, comr. Noted July 1.

N. Y., Johnstown—Until Aug. 2, by G. F. Yerdon, city clk., paving and curbing 1,700 ft. Miller St., paving 2,400 ft. Maple Ave., 20 ft. wide; advertised in this issue.

N. Y., New York—Until Aug. 3 by H. H. Bruckner, pres. Bronx Boro., repairing sheet asphalt pavement in railroad area, when and where directed.

N. J., Belvidere—Until Aug. 11, by Bd. Freeholders Warren Co., building section of New Brunswick Turnpike. M. S. Faust, clk.; advertised in this issue.

Pa., Braddock—Until Aug. 2, by city, paving various streets, involving 3,300 sq. yd. brick or concrete. W. H. Williams, supt. pub. wks. Noted May 20.

Del., Middletown—Until Aug. 4, by Town Council, paving Broad and Main Sts., involving 480 cu.yd. excav., 510 sq.yd. concrete gutter, 480 cu.yd. concrete roadway and 11,000 lin.ft. elastite. C. M. Upham, ch. engr.; advertised in this issue.

Maryland—Until Aug. 9, by State Rds. Comn., Baltimore, grading and draining 1.99 mi. state highway from Friendsville toward Love, Garret Co., Contr. 485. J. N. Mackall, chn.; advertised in this issue.

W. Va., Charleston—Until Aug. 14, by Clerk Kanawha Co., grading and building bridges on 33.9 mi. roads in Cabin Creek Dist. L. C. Massey, clk.

W. Va., Princeton—Until Aug. 10, by L. G. Bowling, clk. Mercer Co. shale surfacing 20 mi. Duhring-Goodwill Rd., 9 ft. wide. E. G. Barton, co. engr.

W. Va., Webster Springs—Until Aug. 24, by Clerk Webster Co., building, grading and draining 3.3 mi. roads, in Fork Lick Dist. near Pleasant Grove Church to top Point Mountain. J. W. Hancock, co. rd. engr.; advertised in this issue.

Ga., Athens—Until Aug. 5, by Comrs. Rds. and Revenues, Clarke Co. building 3.73 mi. Athens-Lexington Rd. Federal Aid Project 129. Work involves 7,694 cu.yd. common excav., 21.4 cu.yd. Class "B", and 11.7 cu.yd. Class "C" concrete, 1,902 lb. reinforcing steel, 39,328 sq.yd. paving, 20.4 cu.yd. Class "A" concrete in culverts and 37.8 cu.yd. Class "B" concrete in headwalls.

Ga., Athens—Until Aug. 5, by Comrs. Rds. and Revenues, Clarke Co., building 1.71 mi. Athens-Danielson Rd., involving 4,928 cu.yd. common excav., 18,000 sq.yd. paving, 2.38 cu.yd. Class "B" concrete in headwalls, etc.

Streets and Roads (Continued)

Ga., Carrollton—Until Aug. 18, by Bd. Comrs. Rds. and Revenues Carroll Co., building 11.11 mi. sand clay road between Sta. O and 586-79, State Aid Project S-4-5. Work involves 67,841 cu.yd. earth excav. and borrow, 21,727 cu.yd. top surfacing, 1,345 lin.ft. pipe, 86.60 cu.yd. Class "B" concrete in headwalls, 15 cu.yd. Class "A" concrete for extending arch culverts, 11.11 mi. grassing slopes, etc.

Fla., Fort Myers—Until Aug. 5, by J. W. Owens, city clk., paving 2,607 sq.yd. Oak St. from Atlantic Coast Line R. R. to Henry St.; 1,156 sq.yd. Hendry St. from Oak to 1st Sts.; 1,106 sq.yd. Monroe St. from Oak to 1st Sts.; 16,007 sq.yd. 1st St. from Monroe St. to Evans Ave. Alternate bids will be received on cement concrete, asphaltic concrete, sheet asphalt, asphaltic block and vitr. brick. J. A. Davidson & Son, city engrs.

Miss., Hooker—Until Aug. 15, by Great Southern Lumber Co., Bogalusa, La., building 5 mi. log road near here, involving 25 acres clearing, 130 stations grubbing, 80,000 cu.yd. earth excav. and 25,000 cu.yd. overhaul. J. H. Cassidy, asst. genl. mgr.

Miss., Poplarville—Until Aug. 4, by Bd. Supervs. Pearl River Co., building 12.98 mi. Federal Aid Project 93, between here and Lumberton, involving 18.5 acres clearing and grubbing 33,941 cu.yd. excav., 112.2 cu.yd. concrete, 70,200 ft. lumber in bridges, 20,310 cu.yd. gravel, 3,696 lb. reinforcing steel, etc. X. A. Kramer, c/o State Highway Dept., Jackson, engr.

Ohio—Until Aug. 20, by State Highway Comn., Columbus, building roads in following counties:

Ashland Co., Sect. D, Mansfield-Wooster Rd., 3.509 mi. grading, constructing bridges and culverts and paving with monolithic brick or concrete. State to furnish brick. About $152,321.

Sect. "Jeromeville," Mansfield-Wooster Rd., .039 mi. grading, constructing bridges and culverts and paving with monolithic brick or concrete, $7,992.

Sect. "Hayesville," Mansfield-Wooster Rd., .624 mi., grading, constructing bridges and culverts and paving with monolithic brick or concrete, $33,175.

Clermont Co., Sect. K, Cincinnati-West Union Rd., 5.489 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, $182,362.

Sect. A, Milford-Vera Cruz Rd., 2.443 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $69,552.

Hardin Co., Sect. E, Findlay-Kenton Rd., 2.08 mi., grading, constructing bridges and culverts and paving with bituminous concrete, $97,721.

Richland Co., Sect. M, Mansfield-Galion Rd., .682 mi., grading, constructing bridges and culverts and paving with brick on concrete base, $42,537.

Sandusky Co., Sect. U, Sandusky-Clyde Rd., .995 mi., grading, constructing bridges and culverts and paving with rein.-con., $41,645.

Sects. C-1 and C-2, Fremont-Bowling Green Rd., 2.222 mi., grading, constructing bridges and culverts and paving with brick on concrete base or plain concrete, $113,098.

Vinton Co., Sect. "Hamden," McArthur-Jackson Rd., .96 mi., grading, constructing drainage structures and paving with brick on rolled base, $46,052.

Ashtabula Co., Sect. E, Jefferson-Andover Rd., 1.22 mi., resurfacing with brick, $41,992.

Crawford Co., Sect. A, Galion-Bucyrus Rd., 1.13 mi., resurfacing with bituminous concrete on Kentucky rock asphalt, $32,637.

Huron Co., Sect. C, Monroeville-Chicago Junction Rd., 1.78 mi., resurfacing with waterbound macadam, $23,967.

Richland Co., Sect. H, Mansfield-Mt. Gilead Rd., 4.36 mi., resurfacing with bituminous macadam, $92,725.

Warren Co., Sect. D, Cincinnati-Chillicothe Rd., 2.99 mi., resurfacing with waterbound macadam, $52,046.

Lorain Co., Sect. M, Oberlin-Elyria Rd., 1.72 mi., resurfacing with bituminous macadam, $34,395.

O., Louisburg—Until Aug. 4, by Comrs. Franklin Co., grading, draining and paving 1,260 ft. West Broad St. from Hogue to West Corporation Aves., 55 ft. wide, 3 in. sheet asphalt with 2 in. wearing surface on 6 in. concrete base. About $27,786. R. W. Smith, clk. C. C. Lattimer, surveyor.

O., Massillon—Until Aug. 6, by Comrs. Stark Co. (Canton), building new floor on Columbia Heights Bridge, here, involving 19,800 sq.ft. surfacing and extending scuppers, 2,200 sq.yd. creosote block wearing surface, including expansion joints. W. C. Schick, clk.

Indiana—By Bd. Co. Comrs. building roads in following counties:

Aug. 2, Dearborn Co., Lawrenceburg, 12,847 ft. W. Grelle Rd., Caesar Creek Twp., broken stone. A. E. Jackson, aud.

Washington Co., Salem, 19,316 ft. Salem and Delaware Creek Rd., Washington Twp.; 9,652 ft. Salem and Martinsburg Rd., Pierce Twp.; 14,069 ft. Campbelsburg and Palmyra Rd., Howard Twp. E. E. Batt, aud.

Aug. 3, Hancock Co., Greenfield, 15,390 ft. N. H. Fry et al Rd., Center Twp.; 13,300 ft. L. F. Richman Rd., Sugar Creek Twp., gravel. A. Cooper, aud.

Bartholomew Co., Columbus, 29,154 ft. Sawyer Rd., Harrison Twp., gravel and stone. R. Henderson, aud.

Morgan Co., Martinsville, 8,009 ft. E. Crone Rd., Adams Twp.; 5,293 ft. Elmer Stierwalt Rd., Adams Twp.; 2,935 ft. J. F. Lewis Rd., Ashland Twp., crushed stone; 18,896 ft. J. E. Williams Rd., Green Twp.; 5,320 ft. E. Lambert Rd., Gregg Twp., gravel. H. H. Nutter, aud.

Aug. 4, Whitley Co., Columbia, 11,195 ft. Orville Huffman et al Rd., Washington Twp., gravel. W. K. Burwell, aud.

Michigan—Until Aug. 14, by State Dept., at dist. office, Port Huron, grading, draining and surfacing 1.192 mi. State Trunk Line Rd. 27-2, 20 ft. wide. Former bids rejected. Noted July 15.

Mich., Bessemer—Until Aug. 3, by Bd. Rd. Comrs., Gogebic Co., grading, draining and surfacing 4.039 mi. State Trunk Line Rd. 26-6, Sect. A, 16 ft. wide, involving 7,770 cu.yd. earth excav., 37,911 sq.yd. gravel surface, 8,000 cu.yd. special ditch excav., etc.

Mich., Fenton—Until Aug. 5, by Village Clerk, grading, draining and surfacing 1.65 mi. State Trunk Line Rd. 87-2 and 65-1 B, 20 ft. wide, involving 19,177 sq.yd. bituminous concrete and 6,750 cu.yd. earth excav. State Highway Dept., Lansing, engrs.

Mich., Ludington—Until Aug. 10, by Bd. Comrs. Mason Co., grading, draining and surfacing .847 mi. State Trunk Line Rd. 11-23, Sects. A and B, 18-20 ft. wide, involving 9,194 sq.yd. concrete, bituminous concrete, bituminous macadam or bituminous concrete on macadam base, 2,988 cu. yd. earth excav.

Ill., Chicago—Until Aug. 2, by Bd. Comrs. Cook Co., H. A. Zender, supt. Pub. Serv., G. A. Quinlan, co. engr., 1126 County Bldg., paving 28,531 ft. Homewood-Lansing Rd., Sect. 6, 8, 15 D, Route 33, Thornton and Bloom Twps., 18 ft. wide, 6 and 7 in. bituminous concrete with binder course, cost $351,829, or 6 and 7 in. portland cement concrete, $268,020; 2,188 ft. Archer Ave., Sect. 46, 15 D, Route 19, Lyons Twp., 18 ft. wide, 8 in. bituminous concrete with binder course, $18,486, 8 in. portland cement concrete, $14,082; 15,352 ft. Glenview Rd., Sect. 69, Northfield Twp., 18 ft. wide, 8 in. bituminous concrete with binder course, $156,850, 8 in. portland cement concrete, $119,486.

Ia., Bloomfield—Until Aug. 11, by Comrs. Davis Co., improving 10.32 mi. various roads, involving 147,444 cu.yd. excav., 2,190 lin.ft. 6-12 in. tile and 5 tile intakes. H. Hensel, Bloomfield, engr.

Ia., Forest City—Until Aug. 3, by Comrs. Winnebago Co., improving 22 mi. various roads, involving 15,257 cu.yd. earth excav. and 28,300 cu.yd. gravel. G. M. Dickson, Forest City, engr.

Ia., Muscatine—Until Aug. 4, by Comrs. Muscatine Co., improving various roads, involving 115,055 cu.yd. excav. G. Halbfass, Muscatine, engr.

Ia., Sidney—Until Aug. 3, by Comrs. Fremont Co., improving 18.07 mi. various roads, involving 256,669 cu.yd. excav., 120 lin.ft. 12 in. drain tile and 2 tile intakes. B. L. Gray, Sidney, engr.

Minn., Eveleth—Until Aug. 3, by city, paving various streets, avenues and alleys. Cost to exceed $25,000.

Minn., Hastings—Until Aug. 10, by Dakota Co. improving Federal Aid Project 23, State Rd. 1, involving 48,000 ft. grading, 10,650 sq.yd. paving, etc. About $55,000. C. L. Methven, Hastings, engr. Noted Mar. 25.

Minn. Red Lake Falls—Until Aug. 6, by Red Lake Co., grading and graveling 8 mi. Federal Aid Project 144, 24 ft. wide. About $56,000. H. E. Palmer, Red Lake Falls, engr.

S. D., Onaconia—Until Aug. 3, by Comrs. Lyman and Tripp Counties at office of auditor Brule Co. (Chamberlain), surfacing 6 mi. Presho-Winner Rd., 24 ft. wide, involving 1,800 cu.yd. excav., 6,580 cu.yd. gravel surfacing, 525 cu.yd. clay binder. About $25,000.

Missouri—Until Aug. 9, by State Highway Dept., at St. Joseph, building .376 mi. Frederick Ave Rd., 29 ft. wide, Federal Aid Project 94, Buchanan Co., involving 239 cu.yd. earth excav., 2,960 cu.yd. borrow, 6,434 sq.yd. plain cement concrete base course, 6,434 sq.yd. spec. "B" bituminous surface course, 3,785 lin.ft. combination concrete and 240 lin.ft. plain concrete curbing and guttering, cost $30,998; 20.02 mi. Sect. A, St. Joseph-Atchison Rd., 24 ft. wide, Federal Aid Project 49, Buchanan Co. Work involves 35,045 cu.yd. earth and 1,658 cu.yd. rock excav., 210,181 cu.yd. borrow, 9,570 lin. ft. 4 in. tile underdrain, $127,213, also 211,454 sq.yd. 1 course plain cement concrete pavement, and 10,805 lin.ft. wooden guard rail, $814,330. Noted June 10.

Arkansas—Until Aug. 14, by State Highway Comrs., Little Rock, building 8.3 mi. road in Dermott-Collins Rd. Impvt. Dist., Drew and Chicot Counties. Work involves 30 acres clearing and grubbing, 87,300 cu.yd. earth embankment, 885 lin.ft. pile trestle bridges, 180 lin.ft. I beam bridges, 20 ft. span, 650 cu.yd. Class A concrete, 36,600 lb. deformed steel bars, 85,950 lin.ft. concrete curb, 76,720 sq.yd. asphaltic concrete or warrenite surface, 15,350 cu.yd. crushed stone base course in place, or 15,350 cu.yd. gravel base course in place. Pritchett & Fry, 203 Reigler Bldg., Little Rock, engrs.

Tex., Amarillo—Until Aug. 20, by R. C. Johnson, judge Potter Co., surfacing 10 mi. Highways 13 and 33, 16 and 18 ft. wide, involving 110,078 sq.yd. bituminous concrete, 25,237 cu.yd. gravel and 8,410 cu.yd. clay. About $175,000. Nagle, Witt & Rollins, Amarillo, engrs.

Tex., Canyon—Until Aug. 18, by C. R. Fleschcr, judge Randall Co., grading and building rein.-con. culverts on 17.03 mi. Highway 33 from here to Clovis Rd., 24 ft. wide, involving 8,590 lin.ft. grader work, 6,438 cu.yd. earth borrow, 107 cu.yd. earth and 250 cu.yd. structural excav., 15,477 lb. reinforcing steel and 193.3 cu.yd. Class "A" concrete. About $28,507. Nagle, Witt & Rollins, Amer. Exch. Natl. Bank Bldg., Dallas, engrs. Noted June 24.

Tex., Groesbeck—Until Aug. 5, by J. E. Bradley, judge Limestone Co, grading, surfacing and draining 23.37 mi. Highway 14, Federal Aid Project 161, 15 ft. wide, involving 117 acres clearing and grubbing, 146,500 cu.yd. earth excav., 1,730 cu.yd. concrete, 165,000 lb. reinforcing steel, etc. About $287,155. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Tex., Spur—Until Aug. 7, by W. L. Powell, judge Dickens Co., grading, surfacing and draining 7.557 mi. Highway 18, Ft. Worth-Roswell Rd., 15 ft. wide involving 2.5 scarifying and reshaping, 16,191 cu.yd. earth excav., 10,242 cu.yd. gravel surfacing, 22,873 lb. reinforcing steel, 55.32 cu.yd. concrete pavement, 281.5 cu.yd. 1:2:4 and 37.12 cu.yd. 1:2½:5 concrete. About $39,316. K. C. Cade, co. engr.

Colorado—Until Aug. 3, by State Highway Comn., Denver, grading and draining 1.357 mi. road between Steamboat Springs and Kremmling, 28 ft. wide, Federal Aid Project 106, Routt Co., involving 10,1[illegible] cu.yd. earth and 1,148 cu.yd. rock excav. and one 60 ft. span steel truss bridge, cost $25,500; 6.647 mi. Steamboat Springs-Hahns Peak Rd., 28 ft. wide, Fedral Aid Project 80, Routt Co., 37,965 cu.yd. earth and 5,174 cu.yd. rock excav., and one 60 ft. span steel truss bridge, $54,000; paving .956 mi. road between Grand Junction and Fruita, 18 ft. wide, Mesa Co., 10,104 sq.yd. concrete, $45,000. J. E. Maloney, state highway engr.

Utah, Lehi—Until Aug. 3, by State Rd. Comn., Salt Lake City, paving 2.47 mi. Main St., 18 ft. wide, 6 in. cement with 2 in. bituminous top, or 7 in. plain concrete. Cost to be borne by city and state. I. R. Browning, state highway engr.

Ontario—Until Aug. 4, by W. A. McLean, deputy minister of highways, Toronto, grading 4 mi. Provincial Highways, near Hamilton, Contr. 122 from city of Hamilton east to Red Hill Contr. 123 from Red Hill east to Sta. 167-00, Contr. 124 from Sta. 214-00 to Sta. 264-00. About $60,000. G. Hogarth, Parliament Bldgs., engr.

Ont., Chapleau—Town receiving bids building 3 mi. sidewalks, involving 70,000 sq.ft. concrete. About $30,000. Chipman & Power, Mail Bldg., Toronto, engrs.

Ont., Chatham—Essex Co. receiving bids paving 2 mi. suburban streets, involving 29,000 sq.yd. rein.-con. About $115,000. W. G. McGeorge, 153 Queen St., engr.

Streets and Roads (Continued)

PRICES AND CONTRACTS AWARDED
(★Indicates Award of Contract)

★**Massachusetts**—State Highway Comn., Boston, let contract building 3,300 ft. highway, Leicester, to C. Bianchi & Co., Inc., Framingham, $61,023. Noted July 22.

★**Mass., Boston**—City let contract paving Clarendon St., bitulithic, to Warren Bros. Co., 142 Berkeley St., $12,614; 1,162 ft. Blackstone St., to J. Landis, $18,633.

Mass., Boston—City received bids July 29, paving Public Alleys 710 and 818, granite block, from J. Landis, $11,984, J. A. Singarella, 220 Devonshire St., $11,340; Faulkland Terrace, (a) Topeka, (b) bitulithic, from J. J. Lane, (a) $13,964, (b) $14,255; Warren Bros., 142 Berkeley St., (b) $14,457.

★**Rhode Island**—State Bd. Pub. Rds., State House, Providence, let contract building 2 mi. road from point 1,000 ft. south of Nanaquaket Bridge, south on Sakonnet Point Rd., in town of Tiverton, to J. Bristow, Narragansett Pier, $87,652. Noted July 22.

★**Connecticut**—State Highway Comn., Hartford, let contract building 3,050 ft. Middlebury-Southbury Rd., Middlebury, 7 in. screened gravel, to J. Arborio, 80 Park St., New Haven.

★**Conn., Wallingford**—M. K. Pickett, Warden, and Court of Burgesses, at office of Boro. Clerk, let contract furnishing labor and material for 12,800 sq.yd. pavement, 4,660 lin.ft. concrete curbing and guttering and 2,300 ft. curbing reset, to Connecticut Natl. Pavements, Inc., New Haven. Cost between $50,000 and $75,000.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids July 21, regulating and repaving (1) Atlantic Ave., (2) regulating and paving 19th Ave., (3) resurfacing Kings Highway, (4) building sewer in Ocean Ave., (5) East 7th St., from Consolidated Asphalt Paving Co., 52 9th St., (1) $262,599, (2) $12,810; Uvalde Asphalt Paving Co., 1 Bway., New York City, (1) $265,811, (2) $12,803; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (1) $264,726; Ward & Tully, 2047 West 11th St., (3) $73,014; Millvale Constr. Co., 1455 76th St., (4) $4,217, (5) $3,418; Tomassetti & Co., (4) $5,017, (5) $3,876; A. Ferris, (4) $5,173, (5) $4,334. Noted July 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro., received bids July 20, paving with granite block, (a) East 133rd St. with sheet asphalt, (b) Whitlock Ave. with bituminous concrete, (c) Garfield St., regulating, grading, setting curb, etc., (d) Harlem River Terrace, building sewer in (e) Fox St., from C. Helbrock, 633 Wales Ave., (a) $11,480; P. J. Kearns, 2306 Creston Ave., (a) $11,506; Burnside Contg. Co., 270 Burnside Ave., (a) $11,707; Davney Asphalt Paving Co., Inc., 438 East 91st St., (b) $29,555, (c) $21,960; Uvalde Asphalt Paving Co., 1 Bway., (b) $29,815, (c) $22,820; Asphalt Constr. Co., 2197 Madison Ave., (b) $32,116, (c) $22,820; J. L. Brusstar, 150th St. and Harlem River, (b) $32,750, (c) $22,152; N. Delbalso, 1481 Hoe Ave., (d) $2,188, (e) $7,461; A. W. Cavalluzo, 1538 Walton Ave., (d) $2,555; Ambrello Co., (d) $2,610; McLoughlin & Buckley, (e) $7,998; N. Dimmenna, 2336 Cambrelling Ave., (d) $2,669, (e) $8,185. Noted July 15.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received bids July 21, regulating and repaving with asphalt block, (1) Bway. with sheet asphalt, (2) West 18th St., (3) 86th St., (4) 125th St., (5) Bway. with granite block, (6) Greenwich Ave., from Hastings Paving Co., 25 Broad St., (1) $268,858; Cleveland Trinidad Paving Co., Flushing, (2) $13,673, (3) $33,878, (4) $102,452; J. L. Brusstar, Harlem River and 150th St. (2) $15,142, (3) $35,338, (4) $99,735, (5) $302,242; Sicilian Asphalt Paving Co., 41 Park Row, (2) $14,125, (3) $34,653, (4) $98,368; Uvalde Asphalt Paving Co., 1 Bway., (2) $14,347, (3) $35,625, (4) $104,235, (5) $291,356; Asphalt Constr. Co., 2197 Madison Ave., (3) $34,359, (4) $109,765, (5) $306,872; H. G. Gents, (6) $6,385; P. J. Kearns, 2306 Creston Ave., (6) $6,542. Noted July 15.

★**N. J., Hoboken**—City let contract improving 1st St., to W. T. S. Crichfield, Washington St., $93,805; Monroe St., from 8th to 9th Sts. and various other streets, Belgium block, to Letteri & Belezza, Jersey City, $791,245. Noted June 17.

★**N. J., Irvington (Newark P. O.)**—City let contracts to J. Dorer, 646 Nye Ave., paving with concrete 20th St. and Clinton Terrace, $13,721 and $12,790 respectively, also paving and building sewer in Alpine St from Grove to 21st Sts., $16,600.

★**N. J., Upper Montclair (Montclair P. O.)**—Essex Co. let contract paving various roads here, to Osborn & Marcellis, Bellevue Ave., Montclair. About $45,000.

★**W. Va., Moundsville**—Comrs. Marshall Co. let contract grading and draining 3 mi. Cameron-Poplar Springs Rd., 10 ft. wide, to N. M. Leigh, Mannington, W. Va. Noted July 15.

★**N. C., Salisbury**—Comrs. Rowan Co. let contract building 7.2 mi. Federal Aid Project 57, 16 ft. wide, gravel, to W. E. Graham, Mt. Ella, $42,046.

★**S. C., Columbia**—Comrs. Richland Co. let contract building 20 mi. Columbia-Saluda Rd., gravel, to White & Simpson, Chatham, Va. About $123,000.

★**S. C., Lexington**—Bd. Comrs. Lexington Co. let contract sand claying 20 mi. road from Columbia to Saluda, to White & Simpson, Chatham, Va. About $123,000. Noted May 20.

★**Fla., Tavares**—City let contract paving 2 mi. street, 30 and 40 ft. wide, asphaltic concrete, to J. Y. Yeats Co., Tampa. About $92,000.

★**Tennessee**—State Highway Dept., Nashville, let contract surfacing 14.322 mi. State Highway 8, Federal Aid Project 20, Frentress Co., waterbound macadam, to Putnam Constr. Co., Cookeville, $312,876; 19.086 mi. State Highway 32, Federal Aid Project 25, Giles Co., rock asphalt, to Columbia Constr. Co., Columbia, $534,605; bridges over 20 ft. span, to Clayton Paving Co., 808 4th Ave., Nashville, $35,384. Noted July 1.

★**Ohio**—State Highway Comn., Columbus, let contracts building roads in following counties:

Columbiana and Mahoning Counties, Sect. K, Alliance-Salem Rd., 1.02 mi., grading, constructing bridges and culverts and paving with brick, to Jones Constr. Co., Lisbon Rd., Salem, O., $49,875.

Guernsey Co., Sect. C, Cambridge-Caldwell Rd., constructing bridge, to J. P. Mumaw, Byesville, $928.

Huron Co., Sect. L, Norwalk-Plymouth Rd., 2.58 mi., grading and draining roadway, to A. J. Baltes, Norwalk, $10,062.

Mahoning Co., Sect. B, Youngstown-Lisbon Rd., 2.51 mi., grading, constructing bridges and culverts and paving with monolithic brick, to T. W. Miller Constr. Co., Youngstown, $93,493.

Miami Co., Sect. A, Piqua-Troy Rd., .146 mi., grading, constructing, drainage structures and paving with rein.-con., to J. Hennessey, Piqua, $9,609.

Paulding Co., Sect. A-2, Paulding-Ft. Wayne Rd., 2.997 mi., grading, constructing bridges and culverts and paving with monolithic bricks, to S. Monroe & Son Co., Plymouth, $150,112.

Sandusky Co., Sect. S-1, Lima-Sandusky Rd., 1.179 mi., grading, constructing bridges and culverts and paving with brick, to Modern Constr. Co., Fremont, $74,866.

Sect. T, Sandusky-Clyde Rd., 1.264 mi., grading, constructing drainage structures and paving with brick, to Lee Bros. and Petticord, Clyde, $60,980.

Sect. A, Memorial Rd., .3 mi., grading, constructing bridges and culverts and paving with brick, to Modern Constr. Co., Fremont, $39,958.

Trumbull Co., Sect. S, Warren-Sharon Rd., 1.34 mi., grading, constructing bridges and culverts and paving with brick, to McDermott & Hannan, Niles, $70,664.

Sect. R-1, Youngstown-Sharon Rd., .66 mi., grading, constructing bridges and culverts and paving with brick, to W. H. Keesecka, Youngstown, $47,083.

Wyandot Co., Sects. J and K of I. C. H. No. 113, 4.545 mi., grading, constructing bridges and culverts and paving with bituminous concrete, to H. P. Streicher Co., 319 Terminal Bldg., Toledo, $220,423.

★**O., Akron**—City let contract paving Silver Lake Blvd., to Columbia Asphalt Co., 708 2nd Natl. Bank Bldg. About $160,000.

★**O., Akron**—City let contracts to Columbus Asphalt Paving Co., 288 East 16th Ave., Columbus, improving Portage Path from Overlook Ave. to Twin Oaks Rd., involving 795 cu.yd. grading, 935 lin.ft. 12-18 in. drain pipe, 5 cu.yd. Class "2" concrete, 8,685 sq.yd. 6-8 in. concrete base, 1,265 lin.ft. sandstone curbing, 4,645 sq.ft. each 1 and 2 course cement walks, 2,895 sq.yd. wood block pavement, 1,000 lb. reinforcing steel, 2,985 sq.yd. concrete pavement, $29,252; Cook St. from Mary St. to Goodyear Ave., 580 cu.yd. grading, 2,400 sq.yd. 6-8 in. concrete base, 595 lin.ft. sandstone curbing, 2,350 sq.ft. cement walks, 295 sq.yd. each cement, asphalt and mastic pitch filler for brick filler pavement, 800 sq.yd. concrete pavement, 100 lb. reinforcing steel, 405 sq.yd. each cement and cement and asphalt filler for Hillside brick pavement, $8,408; Brookside Ave. from Main to Bellows Sts., 1,900 cu.yd. grading, 2,750 lin.ft. 4 in. under drain pipe, 285 lin.ft. 12 in. drain pipe, 10 cu.yd. Class "2" concrete, 16,950 sq.yd. 7-8 in. concrete base, 3,750 lin.ft. sandstone and 300 lin.ft. granite circular curbing, 700 sq.ft. cement walks, 4,350 sq.yd. each asphalt, asphaltic concrete and bitulithic pavement, 5,650 sq.yd. each asphalt, cement and mastic pitch filler for brick pavement, 4,350 sq.yd. bitoslag and 5,650 sq.yd. each concrete and wood block pavment, 1,000 lb. reinforcing steel, $15,195; Ida Ave. from Main to Bellow Sts., 2,650 cu.yd. grading, 3,800 lin.ft. 4 in. underdrain pipe, 810 lin.ft. 12-15 in. drain pipe, 10 cu.yd. Class "2" concrete, 24,520 sq.yd. 6-8 in. concrete base, 3,790 lin.ft. sandstone and 425 lin.ft. granite circular curbing, 1,000 sq.ft. cement walks, 5,030 sq.yd. each asphalt, asphaltic concrete and bitulithic pavment, 6,030 sq.yd. each cement, asphalt asphaltic and mastic filler for brick pavement, 5,030 sq.yd. bitoslag, 6,030 sq.yd. each concrete and wood block pavement, 1,000 lb. reinforcing steel, $50,700.

★**O., Akron**—City let contracts grading and laying sidewalks on Storer Ave. and Wildwood Ave. etc., to A. E. Guilford, Arlington and Johnston Sts., $63,910 and $34,868 respectively; Butler Ave., to Bell Bros., Akron, $10,370.

★**O., Cleveland**—City let contract paving West 85th, West 74th, West 65th, West 61st, West 41st Sts. and intersecting streets at New York, Chicago & St. Louis R.R. grade elmination, to Rochl Bros., West 25th St. and Clark Ave., $166,887. Noted July 8.

★**O., Kenmore**—City let contract paving road from Manchester Rd. to west corporation line, brick on 7 in. base, with in. sand filler and stone curbing, to T. McShaffrey Co., 173 South Forge St., Akron. About $117,000.

★**O., North Canton**—City let contract paving Portage St., to P. Christiansen, North Canton. About $75,000.

★**Ind., Wabash**—City let contract paving East St. from Manchester Ave. to Maple St., to Mead Constr. Co., 1023 Lemcke Bldg., Indianapolis, $49,491; building sewer in above street from Ohio to Spring Sts., to A. C. Hipskind, $6,847.

★**Michigan**—State Highway Dept., Lansing, let contract surfacing and grading 3.956 mi. Federal Aid Rd. 1, Sect. A, 16 ft. wide, to Rd. Comn. Muskegon Co., Muskogon, $120,709. Noted May 13.

★**Michigan**—State Highway Dept. Lansing, let contract grading, draining and surfacing 5.938 mi. Federal Aid Rd. 33, Sect. B, 16 ft. wide, Alacona Co., involving 24,926 cu.yd. earth excav., 55,740 sq.yd. gravel surfacing, 90.4 cu.yd. concrete in culverts, 614 lb. steel reinforcement, etc., to T. W. Edison, Rogers, $77,895.

★**Illinois**—Dept. Pub. Wks. & Bldgs., Springfield, let contracts building following sections Vandalia-Cairo Highway, Sect. 24A, 25A and 26A, Fayette and Marion Counties, to Frazier-Davis Constr. Co., Arcade Bldg., St. Louis, Mo., $56,000; Sect. 27A and 28A, Marion Co., Sect. 30A, Marion and Washington Counties, Sects. 32A and 33A, Washington Co., to Cameron-Joyce & Co., Keokuk, $94,841; Sect. 29A, Marion Co., to Embankment Co., Joliet, $21,623. Noted July 1.

★**Wisconsin**—State Highway Dept., 1st div., office 5, Court House, La Crosse let contract improving 7.19 mi. Whitehall-Ettrick Rd., Federal Aid Project 120, Trempealeau Co., to Mason & Metzgar, Blair, $18,640. Noted July 22.

★**Wisconsin**—State Highway Dept., Madison, let contract improving Woodruff-Fifield Rd. Federal Aid Project 165, Vilas Co., to Michaels & Fitzpatrick, Ironwood, Mich., $58,857. Work involves 51,354 cu.yd. earth excav., at $0.60 per cu.yd., 294.5 cu.yd. concrete in culverts, $25, 5,160 cu.yd. top soil surfacing, $1.05, 57.65 acres clearing and grubbing, $150, 2,527 cu.yd. borrow excav., $0.60, etc.

★**Ia., Grundy Center**—Grundy Co. let contract improving various highways, involving 37,700 cu.yd. excav., to Smith & Co., Des Moines; $0.57 per cu.yd.

★**Ia., Dakota**—Humboldt Co. let contract building 1.85 mi. roads, involving 15,933 sq.yd. pavement, to Emerson & Johnson, Humboldt, $3.68 per sq.yd. Noted Mar. 4.

Streets and Roads (Continued)

★Ia., **Hampton**—Franklin Co. let contract grading 8 mi. road, to J. E. Kughn & Son, Dows, $25,253.

★Ia., **Primghar**—O'Brien Co. let contracts building 5 mi. highway, involving 52,800 sq.yd. rein.-con. pavement, to J. H. Johnson, Royal, $208,032; 8.5 mi., 89,760 sq.yd. rein.-con., to Capital Constr. Co., Des Moines, $285,968; 9 mi., 95,040 sq.yd. rein.-con., to O'Rourke Eng. Co., Des Moines, $363,918; 60,000 lin.ft. tiling, to L. Johnson, Hartley. Noted March 4.

★Minn., **Breckenbridge**—Wilkin Co. let contract grading 10 mi. Federal Aid Project 161-A, State Rd. 2, 24 ft. wide, to M. W. Barnard, Globe Bldg., Minneapolis, $56,683. Noted June 24.

★Minn., **Fairmont**—Martin Co. let contract grading 7 mi. County Job 1906, 24 ft. wide, to W. A. Duffy, Fairmont. About $48,000.

★Minn., **Fairmont**—Martin Co. let contract grading 5 mi. Federal Aid Project 172, 24 ft. wide, to W. H. Ryan, Fairmont. About $30,000.

Minn., **Little Falls**—City let contract paving 14 blocks 1st St. S. E. from 2nd to 6th Aves., involving 38,000 sq.yd. bitulithic on macadam foundation, to General Contg. Co., 1228 Plymouth Bldg., Minneapolis. About $150,000.

★Minn., **Long Prairie**—Todd Co. let contract grading 17 mi. Federal Aid Project 99, State Rd. 1, 24 ft. wide, to H. Thursdale, Long Prairie. About $51,800. Noted July 8.

★Minn., **Montevideo**—Chippewa Co. let contract graveling 14 mi. Federal Aid Project 128, 24 ft. wide, to Minnesota Rural Express Co., Montevideo. About $37,500.

★Minn., **Rush City**—Chisago Co. let contract for 7 mi. concrete paving and 33 mi. grading on Federal Aid Project 95, State Rds. 5, 2 and 1, to W. S. Harris Co., Minneapolis, and C. Johnson, Sandstone. Total cost $188,000.

★Minn., **Willmar**—Kandiyohi Co. will grade 9 mi. and gravel 18 mi. Job 2004, 24 ft. wide. Work will be done by day labor. About $35,000 and $72,000 respectively.

★Kan., **Ft. Scott**—Bourbon Co. let contracts grading and building concrete culverts on 7 mi. Ft. Scott-Pittsburg Rd., to P. C. Burkirk, Hutchinson, $16,385; paving with bituminous macadam 5,366 ft. Hammond Branch Rd., 10 ft. wide, also 3.64 mi. Kansas City Rd., Federal Aid Project 5B, involving 34,171 sq.yd. bituminous macadam, to Thogsmartin & Gardner, Ft. Scott, both $1.91 per sq.yd. Noted June 24 and July 1.

★Mo., **Carthage**—Jasper Co. let contract building 2.76 mi. Joplin-Carthage Rd. (Carterville Special Rd. Dist.), Federal Aid Project 81, to Carterville Constr. Co., Carterville, $85,466. Work involves 7,833 cu.yd. earth and 1,200 cu.yd. rock excav., at $0.85 and $2.80 per cu.yd. respectively, 700 cu.yd. per 100 ft. overhaul, $0.03, 29,259 sq.yd. 1 course alpin cement concrete pavement, $2.58, 18.74 cu.yd. Class "B" concrete masonry, $24, 1,412 lb. reinforcement for concrete masonry, $0.10. Noted July 15.

★Tex., **Austin**—Travis Co. let contracts improving (1) 3 mi. Austin-Oak Hill Rd., 16 ft. wide, including (a) grading and surfacing with gravel, (b) building concrete drainage structures, (c) topping with ½ in. trap rock surface, (2) grading and surfacing with rock, 3.1 mi. Austin-Upper Georgetown Rd., 16 ft. wide, (3) topping with 1 in. bituminous treatment of limestone rock asphalt and building concrete drainage structures on 3.1 mi. Austin-Upper Georgetown Rd., (Jollyville Branch) from Brown & Root, Taylor, (1a) $13,414; W. E. Dozier, Austin Natl. Bank Bldg., (1b) $9,578, (3) $28,513; Haden & Austin, 727 Kress Bldg., Houston, (1c) $14,159; McMillen & Williamson, c/o L. F. McMillen, Austin (2) $35,173; all including 10% for engineering and contingencies. Noted July 15.

Tex., **Center**—Shelby Co. received bids grading, surfacing and draining 31.9 mi. Highway 8 from Panola to San Augustine Counties, 16 ft. wide, from Smith Bros., Crockett, $350,972; O. H. Polly and H. F. Bland, Center, $375,000. Work involves 125.56 acres clearing and grubbing, 82,022 cu.yd. earth borrow, 125,131 cu.yd. earth excav., 8,230 lin.ft. timber piling, 15,417 lb. reinforcing steel, 172.9 cu.yd. 1:2:4 and 71.86 cu.yd. 1:3:6 concrete, etc. Materials to be furnished by county, to cost $116,336.

★Tex., **Orange**—Orange Co. let contract grading, paving and building concrete and steel drainage structures on 10.26 mi. Highway 3 between Beaumont and Port Arthur, 16 ft. wide, to Houston Constr. Co., 3102 McKinney St., Houston, $451,503; including 10% for engineering and contingencies. Noted June 3.

★Tex., **Richmond**—Ft. Bend Co. let contract grading and draining 13.01 mi. Highway 36 from Roseberg to Austin Co. line, 24 ft. wide, to M. M. Craven, Bellaire, $70,318; including 10% for engineering and contingencies. Noted July 8.

★Tex., **Van Horn**—Culberson Co. let contracts improving 23.356 mi. Highway 12, 9 ft. wide, also 43.167 mi. Highway 1, 9 ft. wide, to W. E. Hamilton, Mineral Wells, $31,984 and $114,990 respectively. Noted June 24.

★New **Mexico**—State Highway Dept., Capitol Bldg., Santa Fe, let contract grading and draining 32.411 mi. Federal Aid Project 18, between Carlsbad and Lovington, Eddy Co., to La Roe & Burgess, Palestine, Tex., $80,950; grading, surfacing and building structures on 10.859 mi. Federal Aid Project 13-A, between Armijo and Laguna, Valencia Co., to A. P. Atchison, Raton, $3,095; 11.365 mi. Federal Aid Project 24, between Clovis and Portales, Roosevelt Co. and 15.437 mi. Federal Aid Project 25, between Texico and Portales via Clovis, Curry Co., to Atlas Constr. Co., La Veta, Col., $97,184 and $91,252 respectively. Above contracts do not include 10% for engineering and contingencies. Noted June 24.

Utah, Ogden—City received bids July 15, paving various streets in Dist. 132, involving 4,795 sq.yd. asphalt on concrete base, from Wheelwright Contg. Co., Ogden, $38,672; Moran Paving Co., Felt Bldg., Salt Lake City, $42,307.

★**Washington**—State Highway Comn, Olympia, let contract grading, draining and paving with concrete 1.71 mi. Olympic Highway, from Elma east, Grays Harbor Co., to C. E. Philbrick & Co., Raymond, $60,417; 1 mi. Pacific Highway from Silvana north, Snohomish Co., to J. L. Smith, Pioneer Bldg., Seattle, $35,436; clearing, grading, draining and surfacing with gravel 1.24 mi. State Rd. 5, from Randle west, Lewis Co., to Copenhagen Bros. & Co., Portland, $39,980. Noted June 29.

★**Wash., Aberdeen**—City will pave roadway of east city entrance, 18 ft. wide, concrete. About $31,300. Work will be done by day labor.

RAILWAY—DETROIT, MICH.

Bids were received by city for constructing railway, (1) Charlevoix-Buchanan Route, (2) St. Jean, Shoemaker, Montclair Line, (3) Warren Ave. W., Line, (4) miscellaneous materials, from (1A) J. A. Mercier, 216 Hammond Bldg., (1B) Detroit Dept. Pub. Wks., (1C) Lennane & McIlvenna, 1205 Book Bldg.; (2A) J. A. Mercier, (2B) Thomas E. Currie, 20 McGraw Bldg.; (3A) Julius Porath, 34 McGraw Bldg., (3B) Lennane & McIlvenna; (4A) Lorain Steel Co., Lorain, O., (4B) Bethlehem Steel Co., Bethlehem, Pa. The unit bids were as follows:

	A	B	C
(1) Charlevoix—Buchanan Route:			
62,500 cu.yd. excavation	$4 50	$5 70	$5 50
75,000 sq.yd. 8½-in. concrete	3 50	3 50	3 50
59,600 ft. of 6-in. tile	60	55	70
98 vitrified crosses	1 00	1 00	2 00
4,400 cu.yd. ½-in. crushed stone	5 00	4 50	5 35
112 manholes	25 00	30 00	35 00
Extended totals	$605,531	$676,211	$676,977
(2) St. Jean, Shoemaker, Montclair Line:			
21,500 cu.yd. excavation		2 95	$3 25
26,300 sq.yd. 8½-in. concrete		3 00	3 10
21,300 ft. of 6-in. tile		60	28
45 vitrified crosses		1 00	1 00
1,500 cu.yd. of ½-in. crushed stone		5 00	4 80
82 manholes		25 00	30 00
Extended totals		$164,730	$167,080
(3) Warren Ave., West Line:			
10,830 cu.yd. excavation		$2 40	$3 70
13,932 sq.yd. 8½-in. concrete		3 20	3 50
9,100 ft. of 6-in. tile		35	70
765 cu.yd. ½-in. crushed stone		4 00	4 85
30 manholes		40 00	35 00
Extended totals		$78,019	$99,963
(4) Miscellaneous Materials:			
4,150 tons of 91-lb. T-rails		$71 90	$96 13
307,174 lb. tie rods			7 40
¾-in. nuts, 43,080 lb			7 40
577 kegs of track spikes		7 67	9 38
704 pairs of rail splices		4,643	6,426
2,158 lb. of 1-in. bolts		0 0584	075
80 pieces of special work		232,020 00	278,340 00
Extended totals		$553,393	$709,676

★**Wash., Seattle**—City let contract grading and filling 4th Ave. S., et al, to Grant Smith Co., Henry Bldg., $225,462. Noted July 22.

★**Wash., Seattle**—City let contract paving and grading 17th Ave., N. W., et al, to S. A. Moceri, Alaska Bldg., concrete, $135,476. Work involves 9,000 cu.yd. subgrade, 10,500 lin.ft. Type "A" armored concrete curb, 8,370 lin.ft. Type "B" integral concrete curb, 20,500 sq.yd. 6 in. concrete and 13,900 sq. yd. 7 in. concrete pavement.

★**Oregon**—State Highway Comm., Portland, let contract surfacing 7.5 mi. Grave Creek-Pleasant Valley Sect. Pacific Highway, Josephine Co., broken stone or gravel, to D. M. Stevenson, 264 East 31st St., Portland, $77,610; 24.2 mi. Bend-Jefferson Co. Line Sect. Dallas-California Highway, involving 53,000 cu.yd. gravel or broken stone, to Wicker, Sharp & Chindahl, Lewis Bldg., Portland, $2.45 per cu.yd.; 5.45 mi. Roseburg-Wilbur Sect. Pacific Highway, Douglas Co., 11,500 cu.yd. gravel or conglomerate, to J. Haakenson, Oakland, $38,525; 1.58 mi. Newberg-Dundee Sect. West Side Highway, Yamhill Co., 3,500 cu.yd. gravel, to E. A. Palmer, Lafayette, $8,645; 4.45 mi. Riverdale Hobsonville Sect. Coast Highway, Tillamook Co., 10,400 cu.yd. gravel, 4.72 mi. Beaver-Hebo Sect. Coast Highway, Tillamook Co., 11,000 cu.yd. gravel, and 3 mi. Moore Cutoff Coast Highway, Tillamook Co., 6,400 cu.yd. gravel, to County Court, Tillamook, $2.90 per cu.yd., $2.80 and $1.40 respectively; grading 0.64 mi. Talent Reservoir Sect. Pacific Highway, Jackson Co., to C. H. Natwick, $8,327; paving 2.32 mi. Cedar Point-Coquille Sect. Coast Highway, Coos Co., to Scandia Shipbuilding Co., $79,574; macadamizing 4.5 mi. Sheridan-Polk Co. Line Sect. McMinnville-Tillamook Highway, to W. N. Trent, McMinnville, $32,016.

★**Que., Montreal**—City let contract paving ¾ mi. Wilson Ave. from Sherbrooke to Monkland Sts. and Du Rosaire Rd. from Boyer to St. Hubert Sts., to Quinlan, Robertson & Janin, 260 St. James St., $38,143 and $6,985 respectively. Noted July 22.

★**Ontario**—Provincial Government, Toronto, let contracts building pavements, culverts, and supplying crushed stone as follows: bituminous macadam pavement on road from St. Catharines to Stoney Creek, to H. L. Symons & Co., 43 Scott St., Toronto; culverts in Burford and Blenheim Twps., to J. A. Vance, 209 Light St., Woodstock; in Whitby Twp., to J. A. McDonald, Whitby; crushing and delivering 4,200 cu.yd. stone, Charlottenburg Twp., to McLean & Stidwell, Cornwall; 6,000 cu.yd. stone, Lancaster Twp., to Chisolm & Wellage, Lancaster. About $70,000.

Railways

PROPOSED WORK

Pennsylvania—Genl. Electric Co., River Rd., Schenectady, N. Y., plans to build 3,900 ft. standard railroad tracks, also grade 1,077 x 771 ft. tract between tracks of Phila., Baltimore & Washington R.R., Elmwood Ave., East 68th and West 70th Sts., Phila., involving 68,000 cu.yd. excav. and 150,000 cu.yd. filling.

Nebraska—See "Industrial Works" under Omaha.

Wyoming—Union Pacific R.R., 15th and Dodge Sts., Omaha, Neb., plans to build 125 mi. of track between Granger, Wyo. and Gateway, Utah. R. L. Huntley, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Illinois**—Alton & Southern R.R., 21st and Boismenue Sts., East St. Louis, let contract laying tracks, grading, bridging and ballasting on about 4 mi. old electric line between East St. Louis and Belleville, to Mellon Contg. Co., Oliver Bldg., Pittsburgh, Pa. About $500,000. Work involves 300,000 cu.yd. earth fill, 10,000 cu.yd. ballast and 1,500 cu.yd. rein.-con.

★**Utah**—State Rd. Comn., State Capitol, Salt Lake City, will build 3.2 mi. road from Salt Lake Route tracks to point of Mountain Grand Pits. Work will be done by day labor. I. R. Browning, state highway engr.

Excavation and Dredging

PROPOSED WORK

Miss., Cleveland — Dredging — Laban Bayou D. D. Bolivar Co. soon receives bids for 180,000 cu.yd. floating dredgework and building 300,000 cu.yd. lateral ditches. W. W. Boone, Cleveland, engr.

Miss., Cleveland — Dredging — Christmas D. D. Bolivar Co. soon receives bids for 12 mi. floating dredgework, involving 350,000 cu.yd. earth excav.; building 12 mi. lateral ditches, 150,000 cu.yd. earth excav. W. W. Boone, Cleveland, engr.

Ark., Helena—Ditches, etc.—Phillips Co. (Helena) and Desha Co. (Arkansas City) plan to build ditches and levees to reclaim 250 sq.mi. overflowed land. J. L. Harrington, c/o Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engr.

BIDS DESIRED

Miss., Summer — Until Aug. 5, by Blue Lake D. D. Comrs. building 11 mi. open ditch, involving 550,000 yd. floating dredgework in Tallahatchie and Sunflower Counties. A. L. Dabney, Randolph Bldg., Memphis, Tenn., engr.

Ill., Edwardsville — Excavation — Until Aug. 5, by Comrs. Cahokio Creek Levee and D. D., straightening 6 x 6 mi. Cahokio Creek Channel from Carpenter to Edwards, to include 3 beam bridges with concrete abutments. About $115,000. Shepard & Morgan, Edwardsville, engrs.

Wis., Milwaukee—Excavation—Until Aug. 5, by Bd. Industrial Educ., Manufacturers' Home Bldg., excavating for 7 story, 145 x 268 ft. continuation school (2nd unit), brick, rein.-con. and steel, rein.-con. flooring, concrete and pile foundation, on 7th and Prairie Sts. Van Ryn & De Gelleke, Caswell Blk., archts.

Ia., Ft. Dodge—Drainage—Until Aug. 3, by Comrs. Webster Co., building D.D. 316, involving 8,620 ft. 10-22 in. tile, cost $9,480; D. D. 311, 9,400 ft. 8-24 in. tile, $12,415; furnishing labor building D. D. 4, 3,000 ft. 12-18 in. tile. J. L. Parsons, Ft. Dodge, engr.

Ia., Rockwell City—Ditch—Until Aug. 12, by R. B. Dixon aud. Calhoun Co., building Joint D. D. 181, in Calhoun, Sac, Pocahontas and Buena Vista Counties, Branch Sect. 2 includes 51,680 ft. open ditch and involves 1,513,000 cu.yd. excav., Sect. 4, 64,050 ft. open ditch, 506,560 cu.yd. excav. and Sect. 5, 40,905 ft. open ditch, 682,952 cu.yd. excav. About $250,000.

Minn., Waseca—Until Aug. 10, by Comrs. Waseca Co., building County Ditch 16, involving 21,555 lin.ft. 8-28 in. tile, 850 ft. 10-28 in. sewer pipe, 8 surf water inlets, 4 cu.yd. concrete in bulkheads, 2 mi. haul. About $50,000. J. W. Hruska, Waseca, engr.

Mo., Trenton—Ditch—Until Aug. 4, by W. N. Norris, clk. Grundy Co., building 10 mi. drainage ditch.

Ariz., Phoenix—Excavation—Until Aug. 5, by Salt River Valley Water Users Assn., Water Users Bldg., drilling ten to twenty 10 or 12 in. diameter wells. L. Kemperman, purch. agt.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ia., Algona**—Drainage—Kossuth Co. let contract for tile work in Sub. D. D. 9 of D. D. 4 to Humboldt Gravel & Tile Co., Humboldt. Noted May 20.

★**Ia., Carroll**—Carroll Co. let contracts for labor building D. D. 87 to W. O. Schuyler, Scranton, $59,045; tile to Cement Products Co., Spencer, $127,277. Noted March 25.

★**Ia., Emmetsburg**—Drain—W. T. Krieger, aud. Palo Alto Co., let contract improving D.D. 1, involving 670,000 cu.yd. excav., to E. G. Sternberg, 53 West Jackson Blvd., Chicago, $0.14 per cu.yd. Noted July 8.

★**Ia., Ft. Dodge**—Drainage—Calhoun Co. let contract furnishing labor building D. D. 16-247, Webster and Calhoun Counties, to Rude & Wold, Pomeroy, $16,939; tile, to McHose Sand & Tile Co., Boone, $30,484.

★**Ia., Harlan**—Shelby Co. let contract building Nisha Botna Ditch 11 and Elk Creek laterals, to F. M. Crane Co., 1124-6 City Natl. Bank, Omaha, Neb. About $89,000.

★**Minn., Willmar**—Ditch—Kandiyohi Co. let following contracts for building County Ditch 48: digging trenches, laying tile and backfilling 44,477 ft. 6-30 in. tile, to Lee & Nodland, Starbuck, $8,914; delivering 44,477 ft. cement tile, to Minnesota Pipe & Tile Co., 820 West 6th St., Mankato, $17,170; hauling above tile, to W. Campbell and F. Euling, R. F. D. 4, Raymond, $1,820.

★**Minn., Willmar**—Kandiyohi Co. let contract building County Ditch 47, involving 169,512 cu.yd. earth excav., 172 stations open work, to Mulgrew & Sons Co., Dubuque, Ia., $0.16½ per cu.yd.

★**Ont., Ottawa** — Dredging — Dominion Government let contract dredging harbors at Kingston, Coburg and Port Hope, Frontenac Co., to Frontenac Dredging Co., Kingston. About $150,000.

Industrial Works

PROPOSED WORK

Mass., Holyoke—Elm Garage Co., 243 Elm St., plans to build 2 story, rein.-con. garage, on Elm and Cabot Sts. About $65,000. Architect not selected.

Mass., West Springfield (Springfield P. O.)—Springfield Automatic Screw Machine Corp., Springfield, plans to build concrete and steel plant on 4 acre site, here. About $250,000. I. P. McGregor, treas. Architect not selected.

Mass., Whitinsville—J. D. Leland, archt., 185 Devonshire St., Boston, soon lets contract building 5 story, 90 x 400 ft., brick and rein.-con. addition to plant, rein.-con. flooring, concrete foundation, for Whitin Machine Wks. About $600,000. Noted Jan. 15.

R. I., East Greenwich—Greenwich Mills, Division St., plans to build 4 story, 80 x 90 ft., brick and mill construction addition to plant. About $50,000. Private plans.

R. I., Olneyville (Providence P. O.)—P. Laudati, 87 Weybosset St., Providence, having plans prepared by C. E. Burlingham, archt., 76 Dorrance St., Providence, for rein.-con. warehouse, on Grove St., here. About $75,000.

Conn., Bridgeport—A. Aldo, 1699 Madison Ave., having plans prepared by F. A. Cooper, archt., 1024 Main St., for 1 story, 100 x 110 ft., brick and steel garage, rein.-con. flooring, stone foundation, on North Ave. About $50,000.

Conn., Devon (Milford P. O.)—Milford Shipbuilding Co. plans to build shipyard along Housatonic River, for building coast vessels. Engineer not selected.

Conn., Hartford—Hartford Mattress Co., Kilbourn St., having plans prepared by B. A. Sellew, archt., 223 Asylum St., for 3 story, 43 x 90 ft., brick, concrete and steel plant, rein.-con. flooring, concrete foundation. About $50,000.

Conn., Norwalk—City plans to build 2 story electrical plant, brick, concrete and steel, rein.-con. flooring, concrete foundation. About $50,000. Westcott & Mapes, Inc., 207 Orange St., New Haven, engrs.

Conn., Suffield—W. E. Dibble, archt., 317 Main St., Springfield, soon lets contract building 1 and 2 story, brick and concrete plant, concrete foundation, for Fogds-Wawbeek Springs, Inc., c/o Architect. About $50,000. Noted June 17.

N. J., Newark—Williams Baking Co., 711 South 10th St., having plans prepared by J. T. Simpson, archt., Essex Bldg., for 1 story, 50 x 125 ft., brick and timber addition to bakery, also new stable. About $100,000.

Pa., Altoona—Altoona Merchandise Co., 11th Ave. and 10th St., plans to build 1 story, 120 x 150 ft., brick and steel warehouse. About $200,000. G. W. Shaffer, pres. Architect not selected.

Pa., Johnstown—Peris Products Co. plans to build 2 story, 30 x 47 x 167 ft., brick and steel plant, on Sheridan Ave. About $150,000. R. K. McManamy, Ft. Stanwix Hotel, fiscal agt. Architect not selected.

Pa., Phila.—E. B. Steinmetz Co., Huntingdon and Hancock Sts., soon lets contract building 2 story, 48 x 105 ft. paint factory, brick, on Sedgely St. Peuckert & Wunder, 310 Chestnut St., archts. and engrs.

Pa., Scranton—F. Nelson, archt., Council Bldg., preparing plans for 3 story, 50 x 100 ft. handkerchief factory, brick and timber rock foundation. About $100,000. Owner's name withheld.

Md., Baltimore—Natl. Bitulithic Enamel & Paint Co., Lawrence and Woodall Sts., receives bids about Aug. 9, building 3 story, 100 x 150 ft., rein.-con. and brick addition to plant, rein.-con. flooring, concrete foundation. About $100,000. Private plans.

Va., Richmond—Standard Paper Mfg. Co., Hull and Canal Sts., had preliminary plans prepared by J. H. Wallace & Co., 5 Hanover Sq., New York City, for 2, 3 and 4 story, 150 x 230 ft. factory, at south end Mayo Bridge. About $200,000.

La., New Orleans—Union Paper Products Co., 109 Tchoupitoulas St., soon lets contract building 1 story, concrete and steel factory, on Colapessa St., to have 50,000 sq.ft. floor space. About $125,000. Weil, Whitney Central Bank Bldg., archt.

La., Shrewsbury (New Orleans P. O.)—Rex Motor Mfg. Co., 628 Gravier St., New Orleans, having plans prepared by E. S. Soule, archt., 429 Carondelet St., New Orleans, for 1 story brick factory, concrete flooring, to cover 7 or 8 acres, here.

O., Akron—Akron Gear & Eng. Co., South and High Sts., purchased site and plans to build new factory, on East Market St. and Martha Ave. J. A. Palmer, pres.

O., Canton—Timken Roller Bearing Co., Dueber Ave., plans to build 1½ story addition to factory, on 18th St., S. W. About $75,000.

O., Cincinnati—Nash—Cincinnati Motors Co., 804 Sycamore St., plans to build 2 story brick and concrete garage, on Reading Rd. and Morgan St. About $95,000.

O., Cleveland—U. S. Leather Co., c/o E. B. Cassett, East 13th St. and Euclid Ave., plans to build 1 story, 100 x 300 ft. rein.-con., steel and brick factory, rein.-con. flooring, concrete foundation, on Broadview Rd. About $100,000. Architect not selected.

O., Cleveland—Walter Ice Co., c/o A. C. Bishop & Co., archt. and engr., 427 Guardian Bldg., soon lets contract building 1 story, 45 x 142 ft., brick and steel plant, brick foundation, on West 25th St. About $100,000. Noted July 22.

O., Defiance—Highway Motor Co. soon lets contract building 3 story, 100 x 160 ft. brick addition to plant. About $80,000. Mills, Rhines & Nordhoff, 1234 Ohio Bldg., Toledo, archts. and engrs.

Mich., Detroit—Genl. Forging Corp., c/o J. D. Edwards, 54 Lafayette Blvd., plans to build drop forge plant, 1st unit to be 2 story, 65 x 210 ft., rein.-con., brick and steel shop, rein.-con. flooring, concrete foundation. Private plans.

Mich., Detroit — Michigan Creamery Co., c/o S. Raboniwitch, Ford Bldg., having preliminary plans prepared by T. A. Hyland, archt., 307 Moffat Bldg., for 7 story, rein.-con., brick and steel plant, rein.-con. flooring, concrete foundation, on Grand River Ave., to include power plant, refrigeration system, etc.

Mich., New Buffalo—Pere Marquette R.R. Union Depot Bldg., plans to build 1 story, 16 stall engine terminal house, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. J. Tuthill, Union Depot Bldg., engr.

Mich., St. Johns—See "Buildings."

Mich., Traverse City—City plans to build steam electric power plant. About $75,000.

Ill., Chicago—Standard Electric Mfg. Co., 216 North Clinton St., plans to build 2 or 5 story, 125 x 150 ft. factory, on Wrightwood Ave. About $250,000. Architect not selected.

Industrial Works (Continued)

Wis., Milwaukee—R. Williamson, archt., 405 Bway., opens bids about July 30, building 1 story, 80 x 150 ft., steel and concrete garage, concrete flooring and foundation, on Grand Ave., for Packard Motor Car Co., 3501 Grand Ave. Noted June 3.

Wis., Milwaukee—Ramstack & Son., 1826 Brown St., plan to build 2 story, 60 x 100 ft., brick and mill construction addition to factory, concrete flooring and foundation, on Brown St. Private plans.

Wis., Sheboygan—Tomah Rubber Wks., 176 16th St., Milwaukee, plans to build 2 story, 80 x 160 ft., rein.-con. factory, rein.-con flooring, concrete foundation, here. Architect and engineer not selected.

Ia., Des Moines—Mid-West Steel Co. plans to build 2 story, rein.-con. and steel plant. About $200,000. J. Van Lew, c/o Des Moines Steel Co., 4th St. south of Tuttle St., pres. Engineer's name withheld.

Ia., Des Moines—Woods Co., East 20th and Washington Sts., having preliminary plans prepared for 3 story, brick, rein.-con. and steel plant. About $200,000. Engineer's name withheld.

Minn., Minneapolis—Western Chemical Co., Hutchison, having plans prepared by Downs & Eads, archts., 803 Phoenix Bldg., for 3-5 story patent medicine factory, rein.-con. and brick, on Malcolm and University Aves. Cost between $125,000 and $150,000.

Kan., Atchison—Harwi Hardware Co., 9th and Commercial Sts., soon receives bids building 5 story, 75 x 150 ft., brick, rein.-con. and steel warehouse, rein.-con. flooring, brick foundation. About $125,000. W. H. Sayler & Co., Mutual Bldg., Kansas City, Mo., archts. Noted July 8.

Neb., Omaha—Corn Products Co. plans to build large manufacturing plant, 15 mi. railroad tracks and sewage facilities to carry off 10,000,000 gal. waste water every 24 hours.

Mo., Kansas City—Irving Pitt Publishing Co., 411 East 8th St., having plans prepared by Smith, Rea & Lovitt, archts., 602 Finance Bldg., for 6 story, 130 x 130 ft. publishing house, rein.-con and brick, rein.-con. flooring, on Admiral and Locust Sts.

Mo., St. Louis—City having plans prepared for electric lighting plant and system. About $1,000,000.

Mo., St. Louis — Pierre Investment Co., c/o R. S. Price, archt. and engr., Arcade Bldg., plans to build 1 story, 175 x 200 ft., stucco, steel and brick garage. About $150,000.

Okla., Erick—See "Sewers."

N. B., St. John—T. McAvity & Sons plan to build warehouse in Queen Ward. About $100,000.

N. B., St. Stephen — Mann Axle & Tool Co. plans to build 1 story, 50 x 360 ft. rein.-con. and brick factory. C. E. Huestis, genl. mgr.

Ont., Sudbury—Canada Creosoting Co. plans to build 1 and 2 story, concrete and timber plant, rock and concrete foundation. About $50,000. Private plans.

BIDS DESIRED

Pa., Phila.—L. B. Rothchild, archt. and engr., 1225 Sansom St., receiving bids building 2 and 3 story, 25 x 135 ft., brick factory, on 8th and Locust Sts., for W. Goldstein, 1001 Filbert St.

Ky., Louisville—Kentucky Tire and Rubber Assn., 502 Realty Bldg., receiving bids building 60 x 280 ft. factory. About $400,000. H. J. Huff, Louisville, archt.

O., Cleveland Heights—Until Aug. 11, by School Bd., for excavations, foundations, structural steel, overhead coal storage bin, piping, chimney and mechanical equipment for 50 x 67 ft. heating plant for Pub. School, on Lee Rd. About $100,000. E. K. Bryan, clk. L. A. Quayle, 1455 West 98th St., Cleveland, engr.

Wis., Milwaukee — A. C. Clas, archt., Colby-Abbott Bldg., receiving bids building 2 story, 50 x 150 ft., concrete and brick addition to plant, rein.-con. flooring, on 4th St., for Kletzsch Realty Co., 3rd and Cedar Sts.

Ont., Brantford—Until Aug. 8, by Cockshut Plow Co. constructing 70 x 200 ft. foundry and forging building. About $150,000. Private plans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Boston & Maine R.R., North Sta., let contract building 2 story, 62 x 115 ft., brick and steel freight station, concrete foundation, on Warren Ave., to Tredennick Co., 10 High St. About $50,000. Noted July 22.

★**Mass., Cambridge**—Revere Sugar Refinery, 15 Broad St., Boston, let contract building 1 story, 90 x 200 ft., rein.-con. shop, rein.-con. flooring, concrete foundation, on 9th St., here, to Walsh Bros., 150 Hampshire St. About $100,000. Noted July 8.

★**Mass., Holyoke**—K. R. Charlton, Inc., 118 Race St., let contract building 1 story, 110 x 110 ft. brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on Suffolk and Elm Sts., to P. J. Kennedy & Co., Inc., 464 Maple St. About $60,000.

★**Mass., Holyoke**—Farr Alpaca Co., Jackson St., let contract constructing 5 story, 60 x 205 ft., brick and steel warehouse, on Cabot St. and 4 story, 75 x 156 ft., brick and rein.-con. inspection building, on Jackson St., to S. M. Green Co., 293 Bridge St., Springfield.

★**Mass., Holyoke** — Hampden Glazed Paper & Card Co., Riverside, let contract building 4 story, 92 x 291 ft., brick and steel factory, on Water St., to Casper Ranger Constr. Co., 201 Devonshire St., Boston. About $165,000.

★**Mass., Holyoke** — Magna Automobile Co., 2 Division St., let contract building 2 story, 90 x 100 ft., brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on Northampton St., to Casper Ranger Constr. Co., 293 Bridge St. About $75,000. Noted Jan. 15.

★**Mass., New Bedford**—J. C. Rhodes & Co., Inc., 123 Front St., let contract building 4 story, 70 x 200 ft., rein.-con. and brick addition to factory, rein.-con flooring, concrete foundation, on Front and 4th Sts., to J. W. Bishop Co., 411 Times Bldg. About $200,000. Noted July 22.

★**Mass., New Bedford**—Sharp Mfg. Co., 77 Franklin St., Boston, let contract building 4 story, 70 x 121 ft., brick storehouse, rein.-con. flooring, concrete foundation, on Hemlock St., here, to J. J. Prindiville Co., South Framingham. About $200,000.

★**Mass., Watertown**—Lockwood Greene & Co., engrs. and archts., 60 Federal St., Boston., let contract to H. Nawn Constr. Co., 82 Savin St., Roxbury, building 1 story, 200 x 230 ft., brick and mill construction addition to plant, concrete flooring and foundation, here, for Walker & Pratt Mfg. Co., 31 Union St., Boston. About $200,000. Noted July 22.

★**Conn., Cedar Hill** (New Haven P. O.)—New York, New Haven & Hartford R.R., Meadow St., New Haven, will remodel present freight yards here to include machine shops, blacksmith shops, office, etc. About $150,000. Work will be done by day labor.

★**Conn., Waterbury**—M. J. Daly & Sons, 543 Bank St., let contract building 1 and 3 story, brick and mill construction plant, rein.-con. flooring, concrete foundation, to G. S. Chatfield Co., 138 Division St. About $85,000. Noted July 1.

★**Conn., Waterbury**—E. J. Manville Machine Co., 574 East Main St., let contract building 2 story, 50 x 200 ft., brick and mill construction addition to plant, concrete foundation, to Torrington Bldg. Co., 197 Water St., Torrington. About $65,000. Noted July 1.

★**Conn., Waterville** (Waterbury P. O.)—Berbecker & Rowland Mfg. Co., Main St., let contract building 3 story, 40 x 180 ft., brick and mill construction factory, concrete foundation, to Torrington Bldg. Co., 197 Water St., Torrington. About $100,000.

★**N. J., Monmouth Jct.** — Alcoholic Products Corp. let contract constructing addition to plant, to include two 1 story, rein.-con. and steel buildings, rein.-con. flooring, concrete foundation, to Barney-Ahlers, 110 West 40th St., New York City. About $50,000.

★**N. J., Newark**—Osborn Co. (branch of Amer. Color Type Co.), 759 Summer St., let contract building 1 story, 43 x 75 ft. power house, brick and concrete, to S. Marshall, 326 Devon St., Arlington. About $50,000.

★**N. J., Trenton**—Acme Rubber Mfg. Co., East State St., let contract building 1 story, 90 x 300 ft., brick and steel addition to plant, to N. A. K. Bugbee Co., 206 East Hanover St. About $60,000.

★**N. J., Trenton**—Neidt-Ertel Motor Co., 354 South Broad St., let contract building 1 story, 60 x 181 ft. garage and machine shop, brick and steel, to J. H. Morris, Broad St. Bank. About $50,000.

★**Pa., Carbondale**—Hendrick Mfg. Co., 52 Dundaff St., let contract building 2 story, rein.-con. and steel shop, rein.-con. flooring, concrete foundation, to Turner Constr. Co., 244 Madison Ave., New York City. About $100,000.

★**Pa., Phila.** — Electric Storage Battery Co., Allegheny and 19th Sts., let contract constructing forming room, pig lead manufacturing, jars and castings, buildings and separators, all 1 story, concrete and steel, on Rising Sun Lane and Adams Rd., to W. Steele & Sons, 16th and Arch Sts.

★**Md., Baltimore**—E. H. Koester, 618 West Lexington St., let contract building 4 story, 20 x 80 ft., rein.-con. and brick addition to bakery, concrete foundation, to A. Kratz, 4185 Carrollton Ave. About $150,000.

★**Md., Baltimore**—McCawley & Co., 400 Exch. Pl., let contract building 4 story, 175 x 190 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on North Ave. and Wolfe St., to West Constr. Co., 907 Amer. Bldg. About $350,000. Noted June 24.

★**Md., Baltimore**—Miller Safe Co., Fremont Ave. and Briscoe St., let contract building 1 and 2 story, 123 x 400 ft., rein.-con. and brick factory, concrete foundation, on Wilkens Ave. and Katherine St., to H. D. Watts Co., 502 Garrett Bldg. About $1,000,000. Noted July 8.

★**Tenn., Knoxville**—Holsten Mfg. Co. let contract building rein.-con. factory, to Aberthaw Constr. Co., 27 School St., Boston. About $250,000.

★**O., Cleveland**—Bd. Educ., East 6th St. and Rockwell Ave., let contract building 1 story, 30 x 66 ft. heating plant, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on East 92nd St. and Parkgate Ave., to Drummond-Miller Co., 4500 Euclid Ave. About $100,000.

★**O., Cleveland**—Jordan Motor Co., 1052 East 152nd St., let contract building 2 story, rein.-con., steel and brick plant, rein.-con. flooring, concrete foundation, at 1070 East 152nd St., to Hunkin-Conkey Constr. Co., Century Bldg. About $100,000.

★**O., Cleveland** — J. Laronge Co., c/o J. F. Dickman, 214 Williamson Bldg., let contract building 1 story, 50 x 120 ft., steel and brick garage, rein.-con. flooring, brick foundation, on East 16th St. and St. Clair Ave., to R. E. Davis, 10809 Morrison Ave. About $75,000. Noted July 22.

★**O., Columbus**—Jeffrey Mfg. Co., North 4th St., let contract building 1 story, 215 x 277 ft., steel and concrete factory, to include six 15-50 ton cranes, to R. H. Evans & Co., Columbus Savings & Trust Bldg. About $500,000.

★**Ind., Kokomo**—Haynes Automobile Co., 1108 South Main St., let contract building 1 and 2 story, 75 x 900 ft. body plant, brick and steel, to M. J. Hoffman Constr. Co., Fletcher Trust Bldg., Indianapolis. About $250,000.

★**Ill., Chicago**—Chicago Jct. Ry., 38 South Dearborn St., let contract building compressor room and addition to boiler room, also installing two 150 hp. high pressure boilers, air compressor, etc., to E. W. Sproul Co., 2001 West 39th St. About $80,000.

★**Ill., Chicago**—Enterprise Paint Mfg. Co., 854 West Van Buren St., let masonry and carpentry contract for altering and building 5 story, 44 x 60 ft., mill construction addition to factory, on Van Buren and Peoria Sts., to O. W. Rosenthal Co., 84 East Jackson St. About $50,000.

★**Ill., Chicago**—E. Katzinger Co., 12 North Peoria St., let contract building 7 story, 100 x 120 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Washington and Sangamon Sts., to J. W. Snyder Co., 122 South Michigan St. About $450,000. Noted June 29.

★**Wis., Milwaukee** — Scott & Mayer, archts., Colby-Abbott Bldg., let contract to Amer. Contg. Co., 198 Milwaukee St., building 2 story, 60 x 112 ft. and 70 x 106 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Lake St., for Pitcairn Varnish Co., 213 Lake St. About $180,000.

★**Wis., Racine**—J. I. Case Threshing Machine Co. State St., let contract building 1 story, 200 x 420 ft., brick and steel warehouse, concrete flooring and foundation, to Nelson & Co., Robinson Blk.

★**Ia., Dubuque**—Adams Co. will build 3 story, rein.-con. foundry. About $150,000. Work will be done by day labor.

★**Ia., Newton**—Newton Fdry. Co. let contract building 2 story, 106 x 300 ft., brick, rein.-con. and steel foundry, to A. H. Newman Co., 517 Hubbell Bldg., Des Moines. About $100,000.

Industrial Works (Continued)

★**Minn., Minneapolis**—Hennepin Atomized Fuel Co., 520 Security Bldg., let contract building 1 and 2 story, 100 x 150 ft. fuel crushing plant, corrugated metal construction, on Bway. and Johnson St. N. E., to Fegles Constr. Co., 706 1st Ave. N. About $150,000; on time-material basis. Noted Mar. 25.

★**Minn., St. Paul**—House of Good Shepherd, Blair and Virginia Sts., let contract constructing 3 story, 42 x 122 ft. laundry and domestic science building with 1 story, 40 x 56 ft. wing, brick and steel, on Blair and Victoria Sts., to Foley Bros., 209 Gillilan Blk. Cost to exceed $100,000.

★**N. D., Fargo** — Advance Rumeley Co., 508-10 Northern Pacific Ave., let contract building 2 story, 100 x 190 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, to Albinson Constr. Co., Minneapolis, Minn. About $185,000.

★**Wash., Seattle**—Fisher Flouring Mills, Harbor Island, let contract building 2 story, 100 x 400 ft. heavy timbered warehouse and 100 x 100 ft. dock, at 3305 Chelan Ave., here, to Grant Smith Co., Henry Bldg. About $250,000.

★**Ont., Hamilton**—Firestone Tire & Rubber Co., Sherman Ave., let general contract building 4 story, rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Sherman Ave., to Piggott Healey Constr. Co., 36 James St. S. About $500,000. Noted Mar. 4.

★**Ont., Listowel**—Perfect Knit Mills will build 3 story, 80 x 280 ft. rein.-con. extension to factory. About $85,000. Work will be done by day labor.

Buildings

PROPOSED WORK

Mass., Boston—Bank and Office—T. M. James, archt., 3 Park St., soon receives bids building 6 story, 45 x 75 ft., brick and concrete, rein.-con. flooring, concrete foundation, on Cornhill St., for Workingmen's Co-operative Bank, 101 Tremont St. About $150,000. Noted June 24.

Mass., Boston—Mercantile—Haven & Crosby, archts. and engrs., 40 Court St., soon let contract altering brick and steel mercantile building on North St., here, for J. K. Whiting, Milk St., Charlestown.

Mass., Easthampton — Housing — West Boylston Mfg. Co., Pleasant St., plans to build brick and frame houses for workmen, on Everett St. About $125,000. Private plans.

Mass., Greenfield—School—Trinity Roman Catholic Society plans to build brick and steel, on Federal and Beacon Sts. About $100,000. M. J. Carroll, pastor. Architect not selected.

Mass., Haverhill—School—Bd. Educ. rejected bids building 3 story, 40 x 130 ft., brick and concrete addition to Tilton Grammar School, on Grove St. About $100,000. Project postponed. C. D. White, 191 Merrimac St., archt. Noted July 22.

Mass., Jamaica Plain (Boston P. O.)—Theatre—G. Green, 37 Tremont tS., Boston, soon lets contract building 1 story, brick and steel, rein.-con. flooring, concrete foundation, on Hyde Sq., here. About $150,000. W. Dykeman, 120 Tremont St., Boston, archt. Noted July 22.

Mass., Spencer—Church—First Congregational Church plans to build 1 story, brick. About $150,000. R. G. Armstrong, pastor. Architect not selected.

Mass., Swampscott (Lynn P. O.)—Clubhouse—Swampscott Masonic Club having plans prepared by Peare, Quiner, Nevin & Chickering, archts., 6 Beacon St., Boston, for clubhouse, on Humphrey St. About $100,000.

R. I., Providence—Store and Offices—F. W. Woolworth Co., Woolworth Bldg., New York City, having plans prepared by A. H. Bowditch, archt., 44 Bromfield St., Boston, for 5 story, brick, concrete and steel, on Westminster and Dorrance Sts. here.

Conn., Bridgeport—Club—Davis & Dane, archts., 1024 Main St., soon let contract building 4 story, 55 x 60 ft., brick, concrete and steel addition, wood flooring, concrete foundation, on State St., for B. P. O. E., 360 State St. About $100,000. Noted July 8.

Conn., New Haven — Dormitory — Yale University soon lets contract building 4 story brick, concrete and steel, rein.-con. flooring, concrete foundation. About $400,000. W. A. Delano, 126 East 38th St., New York City, archt. Noted April 1.

Conn., Simsbury—Church — Church of Immaculate Conception, Tariffville, plans to build 1 story, on Hop Meadow St., here. About $100,000. J. Q. Dolan, pastor. Architect not named.

Conn., Thompsonville — School — Thompsonville School Dist. having plans prepared by L. A. Allen, Jr., Inc., archt., 904 Main St., Hartford, for 2 story, 8 room, brick and steel, on North Main St. About $125,000.

N. Y., Niagara Falls—School—City voted $3,260,500 bonds to build 5 new schools.

N. J., Boonton—School—Bd. Educ. plans to build 2 story, brick and terra cotta, on Lathrop Ave. About $200,000. W. Potter, 22 East 17th St., New York City, archt.

N. J., Glassboro—Normal School—State Bd. Educ., Trenton, having plans prepared for 3 story, 121 x 300 ft., here, to include power plant. About $422,000. F. H. Bent, 112 West State St., state archt.

N. J., Roselle Park (Elizabeth P. O.)—School—Bd. Educ. rejected bids July 20, building 1 and 2 story, 77 x 118 ft., concrete and brick, in Aldene Park. Cost to exceed $100,000. J. N. Pierson & Sons, 175 Smith St., Perth Amboy, archts., Runyon & Carey, 843 Broad St., Newark, engrs. Work will be readvertised. Noted July 1.

Pa., Bethlehem — Hotel — Chamber of Commerce having plans prepared by V. T. Ritter, archt., North Amer. Bldg., Phila., for 10 story, 116 x 120 ft., brick and steel. Cost to exceed $500,000.

Pa., Collegeville—Library—Ursinus College having preliminary plans prepared by F. R. Watson, archt., 1211 Walnut St., Phila., for 2 story, 85 x 105 ft., stone. Cost to exceed $100,000.

Pa., Ebensburg — Courthouse — Comrs. Cambria Co. having plans prepared by J. R. Gordon, archt., 507 5th Ave., New York City, and soon receive bids building 1 story, 100 x 150 ft. addition to courthouse involving removal of tower and wooden roof of old portion and constructing dome and finished front. About $400,000. H. T. Jones, controller.

Pa., Elmhurst—Orphanage—Greek Catholic Society of America having plans prepared by Morris & MacHale, archts., Burr Bldg., Scranton, for 3 story, 110 x 200 ft. brick and steel, rein.-con. flooring, rock foundation. About $350,000.

Pa., Elysburg—High School—Bd. Educ. having plans prepared by Richter-Lee, archts., 32 South 17th St., Phila., for 2 story, 60 x 80 ft., brick and stone. Cost to exceed $100,000.

Pa., Phila.—Clubhouse — Colonial Dames of America, 1525 Locust St., having plans prepared by V. T. Ritter, archt., North Amer. Bldg., for 3 story, 40 x 80 ft., concrete and brick, on 16th and Latimer Sts. About $100,000.

Pa., Pittsburgh—Office—H. Du Puy c/o F. L. Merrick, archt., Empire Bldg., having plans prepared for 14 additional stories to present building, also 26 story, 50 x 115 ft. addition, brick and steel, rein.-con. flooring, on Liberty Ave. and 5th St. About $1,000,000.

Pa., Shamokin—Bank, etc.—Polish American Trust Co., c/o Richter-Lee, archts., 32 South 17th St., Phila., having plans prepared for 3 story, 55 x 65 ft. brick and stone. About $100,000.

Pa., Sunbury—Bank and Office—Sunbury Trust & Safe Deposit Co., c/o V. T. Ritter, archt., North Amer. Bldg., Phila., having plans prepared for 6 story, 60 x 120 ft., brick and stone. About $500,000.

Pa., Sunbury—Hospital—Central Pennsylvania Odd Fellows Assn. plans to improve and build 2 story, 100 x 200 ft. addition, brick, near here. About $100,000. H. I. Romig, Beaver Springs, secy. Architect not selected.

Pa., Wilkes-Barre—Church—Greek Catholic Church plans to build 2 story, 40 x 80 ft., brick, stone and marble, rock foundation, on North Main St. About $100,000. Architect not selected.

Pa., Williamsport — Theatre — Majestic Theatre Co. plans to build 2 story, 80 x 120 ft., on Pine and Laurel Sts. G. H. Bubb, mgr. Architect not selected.

Md., Baltimore—Church—Christ Protestant Episcopal Church, c/o S. A. Huston, rector, 16 East Biddle St., having plans prepared by H. B. Upjohn, archt., 456 4th Ave., New York City, for stone addition, concrete foundation, on St. Paul and Chase Sts. About $100,000. Noted July 8.

WATERWORKS EXTENSIONS—MADILL, OKLA.

Bids were received by city (lowest 3) for constructing extensions to waterworks, from (A) T. C. Brooks & Sons, Jackson, Mich., (awarded contract); (B) Woodard & Gowland Constr. Co., Ponca City; (C) J. S. Terry, Poteau, Okla. The unit bids were as follows:

	A	B	C
Trenching and Backfilling 4-in. C.-I. Pipe:			
3,000 lin.ft. 5-meter lengths lead and jute joints	$0 35	$0 32	$0 48
3,000 lin.ft. 12-ft. lengths lead and jute joints	37	34	49
3,000 lin.ft. 5-meter lengths metalium joints	35	30	47
3,000 lin.ft. 12-ft. lengths metalium joints	35	32	48
Trenching and Backfilling 6-in. C.-I. Pipe:			
1,160 lin.ft. 5-M. lengths lead and jute joints	40	34	5[illegible]
1,160 lin.ft. 12-ft. lengths lead and jute joints	41	36	5[illegible]
1,160 lin.ft. 5-M. length metalium joints	38	32	49
1,160 lin.ft. 12-ft. lengths metalium joints	38	34	50
Trenching and Backfilling 8-in. C.-I. Pipe:			
2,630 lin.ft. 5-M. lengths lead and jute joints		38	57
2,630 lin.ft. 12-ft. lengths lead and jute joints	45	40	60
2,630 lin.ft. 5-M. lengths metalium joints	42	36	58
2,630 lin.ft. 12-ft. lengths metalium joints	42	38	59
Trenching and Backfilling 10-in. C.-I. Pipe:			
60,650 lin.ft. 5-M. and 16-ft. lengths, lead and jute joints	50	50	63
60,650 lin.ft. 12-ft. lengths lead and jute joints	51	54	67
60,650 lin.ft. 5-M. and 16-ft. lengths, metalium joints	48	48	65
60,650 lin.ft. 12-ft. lengths metalium joints	49	52	68
204 lin.ft. laying 10-in. flex. c.-i. pipe lead and jute joints	10 00	2 50	2 50
204 lin.ft. laying 10-in. flex. c.-i. pipe metalium joints		2 25	2 50
2,400 lin.ft. taking up present 2-in. water pipe	10	30	15
1,062 lin.ft. taking up present 4-in. water pipe	15	50	38
2,862 lin.ft. taking up present 6-in. water pipe	20	54	24
10 taking up present fire hydrants	5 00	15 00	7 50
1 taking up 4-in. universal gate valves	1 00	2 50	7 50
2 taking up 6-in. universal gate valves	1 00	3 00	7 50
1,050 lin.ft. trenching, backfilling 4-in. universal pipe	35	30	45
2,874 lin.ft. trenching, backfilling 6-in. universal pipe	38	12 50	50
9 setting 6-in. steamer hydrants	12 00	15 00	7 50
11 setting 4-in. hydrants	10 00	34	7 50
1 setting 4-in. universal gate valves	2 00	2 50	5 00
2 setting 6-in. universal gate valves	3 00	3 00	7 50
12 setting 4-in. hub end gate valves	2 00	2 50	7 50
4 setting 6-in. hub end gate valves	3 00	3 00	7 50
4 setting 8-in. hub end gate valves	3 00	3 50	10 00
13 setting 10-in. hub end gate valves	10 00	3 75	12 50
2 4-in. wet connections	20 00	14 00	15 00
4 6-in. wet connections	25 00	15 00	20 00
2 8-in. wet connections	30 00	17 00	25 00
2 10-in. wet connections	35 00	20 00	35 00
800 cu.yd. loose rock excavation in trenches	3 00	3 50	3 00
2,500 cu.yd. solid rock excavation in trenches	5 00	6 00	5 00
5 placing 3-in. air valves and boxes	5 00	3 00	7 50
Extended totals, 12 ft. lead and jute joints	$53,833	$58,360	$63,994
Extended totals, 12 ft. metalium joints	$52,445	$56,960	$62,092

Buildings (Continued)

Md., Baltimore — Polytechnic Institute — City having plans prepared by C. M. Anderson, archt., 324 North Charles St., for 3 story, 75 x 200 ft., concrete and brick addition, concrete foundation, on Calvert St. and North Ave. About $100,000.

Md., Baltimore—School—City, c/o J. F. Crowther, bldg. inspector, City Hall, receives bids about Aug. 15, building 3-story, 76 x 271 ft. concrete, brick and steel, concrete foundation, on Fort Ave. and Latrobe Park. About $500,000. O. G. Simonson, Maryland Casualty Tower, archt.

W. Va., Charleston—Administration—City having plans prepared by J. R. Warne, archt., Masonic Temple, for administration building, on Virginia St. About $500,000. H. H. Hill, city mgr.

W. Va., New Cumberland—Courthouse—Hancock Co. voted $100,000 bonds to build new 2 story courthouse on Square. Noted July 1.

N. C., Kanapolis—Church—Reformed Church having plans prepared by C. W. Bolton, archt., Witherspoon Bldg., Phila., for 1 story, 60 x 80 ft. stone. About $100,000.

Tenn., Bristol—Bank and Office—Bank of Bristol plans to build 11 story, 130 room.

Ky., Louisville—Terminal—Louisville & Nashville R.R. plans to build new terminal here. About $15,000,000. L. V. Abbott, chf. engr.

Ky., Louisville—Theatre—Columbia Realty Co., c/o A. W. Johnson, archt. and engr., 489 5th Ave., New York City, having sketches made for brick, steel and stone, stone foundation. About $700,000.

O., Akron—Hospital—Summit Co. plans to build county hospital. Bonds for $1,000,000 voted for project.

O., Canton—High School—City plans to build 2 story, 100 x 200 ft., brick, on Park Ave., S.W. About $800,000.

O., Cleveland—Bank—Colonial Savings & Loan Co., 14600 Detroit Ave., plans to build 2 story, 50 x 100 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Detroit Ave and Warren Rd. About $100,000. H. Hart, secy. Architect not selected.

O., Cleveland—Bathhouse—City having revised plans prepared by J. H. MacDowell, archt., City Hall, for 2 story, 66 x 70 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Starkweather Ave. About $100,000. Noted April 22.

O., Cleveland—Commercial and Theatre—P. H. Luzins, archt., Erie Bldg., preparing plans for 2 story, 50 x 135 ft., brick and steel, brick foundation. About $135,000. Owner's name withheld.

O., Cleveland—Mercantile—J. Babin, 827 Superior Ave., plans to build 4 story, 50 x 200 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, at 3602 Euclid Ave. About $250,000. Architect not selected.

O., Cleveland — Orphanage — Catholic Charities Corp., c/o A. O'Reilly, East 9th St. and Superior Ave., plans to purchase site in Cuyahoga Co. and build 3 story, rein.-con., steel and brick, rein.-con floor-ing, concrete foundation. About $500,000. Architect not selected.

O., Gallipolis—Cottage—Bd. Administration, East Oak St., Columbus, rejected bids July 7, building 1 story, 78 x 117 ft., brick and concrete at Ohio Hospital for Epileptics, here. Work will be postponed until next year. About $100,000. Noted June 17.

O., Sandusky—Church—Sandusky Trinity Methodist Episcopal Church having plans prepared by W. H. Nicklas, archt., 1900 Euclid Ave., Cleveland, for 2 story, 60 x 72 ft. and 60 x 112 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Wayne Ave. About $100,000. E. Sellers, pastor.

O., Uhrichsville—Library, Rest Room and Auditorium—City plans to build library, rest room and auditorium. About $250,000.

O., Warren—Hotel—Warren Hotel Co., c/o F. E. Robbinson, Guardian Bldg., Cleveland, having plans prepared by Moulthrop & Nichols, archts., 5716 Euclid Ave., Cleveland, for 8 story, 80 x 180 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $1,000,000.

O., Youngstown—Temple and Auditorium—Anshe Emeth Temple Congregation plans to build 2 story, brick, steel and terra cotta, including auditorium, 80 ft. in diameter, with 800 seating capacity, on Elm St. About $250,000. A. M. Frankle, chn. Bldg. Com.

Ind., Crown Point—Hospital — Comrs. Lake Co. had plans prepared by J. N. Coleman, archt., 6257 St. Lawrence St., Chicago, for 2 story, 100 x 200 ft. rein.-con., steel and brick. About $400,000.

Ind., Indianapolis—Hospital and Nurses' Home—City having plans prepared by W. E. Russ., archt., 313 North Pennsylvania St., for 4 story, 88 x 175 ft., rein.-con. steel and brick, rein.-con. flooring, on West Michigan St. About $400,000.

Mich., Detroit—Clubhouse and Auditorium—Polish Roman Catholic Union, 1616 Seminole Ave., plans to build 2 story, rein.-con., brick and steel. About $150,000. A. Przybylski, pres. Architect not selected.

Mich., Detroit—Library—Library Comn. retained G. V. Pottle, archt., David Whitney Bldg., to prepare plans for 2 story, 60 x 100 ft., rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation, on Mack and Montclair Aves. About $100,000. A. Strohm, librarian. Noted Jan. 1.

Mich., Kalamazoo—School—Bd. Educ. having plans prepared by R. A. LeRoy, archt., 122 Pratt Blk., for 2 story, 159 x 362 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on North Burdick St.

Mich., St. Johns—Station—Grand Trunk Ry., Dinnan Bldg., plans to build 1 story, 27 x 105 ft. station and freight house, brick and stone, tile and rein.-con. flooring, brick foundation. About $100,000. A. N. Laird, Dinnan Bldg., asst. engr.

Ill., Chicago — Exchange — Holabird & Roche, archts., 104 South Michigan Ave., open bids in August, building 3 and 6 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, on Wabash Ave. and 9th St., for Vitagraph Co., Inc., 207 South Wabash Ave. About $125,000.

Ill., Chicago—Hotel—Rogers Park Hotel & Bldg. Corp., c/o B. L. Steif & Co., archts., 30 North La Salle St., having plans prepared for 9 story, 140 x 150 ft., rein.-con., terra cotta and brick, rein.-con. flooring, concrete foundation, on Sheridan Rd. and Pratt Ave. About $1,300,000.

Ill., Chicago—Office—Dubin & Eisenberg, archts., 139 North Clark St., open bids about Aug. 15, building 2 story, 110 x 141 ft., brick and steel, concrete foundation, on Roosevelt Rd. and Avers Ave., for H. R. Otto, c/o architects. About $125,000.

Ill., Evanston—Club—Holabird & Roche, archts., 104 South Michigan Ave., Chicago, open bids about Aug. 15, building 1½ story, brick and timber, concrete foundation, for Glenview Golf Club here. About $175,000. Noted July 8.

Ia., Des Moines—Office—Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., receive bids about Aug. 10, building 2 story, 106 x 110 ft brick and rein.-con., on Grand St. between 9th and 10th Sts., for 1st and 2nd Mortgage Co., R & T Bldg. About $120,000.

Ia., Hinton—School—Bd. Educ. opens bids in August, building 2 story, brick, rein.-con. and steel. About $130,000. H. Brown, secy. Beuttler, Arnold, Grain Exch. Bldg., Sioux City, archts. Noted Jan. 8.

Ia., Mason City—Hotel—Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, open bids about Aug. 1 building 6 story, rein.-con. and brick, for Mason City Hotel Co. About $1,000,000. Noted April 15.

Ia., Redfield—School—Bd. Educ. having plans prepared by W. Gordon, archt., 315 Hubbell Bldg., Des Moines, for 2 story, rein.-con., brick and steel. About $120,000. W. Taylor, secy. Noted May 6.

Minn., Marble—City Hall—Bd. Village Trustees rejected bids July 19, building 2 story, 80 x 120 ft., rein.-con., brick and tile. About $100,000. C. H. Parsons, 600 Builders Exch., Minneapolis, archt. Noted July 8.

Minn., Minneapolis—Chemistry—State Bd. Control, St. Paul, rejected bids July 20, building 3 story, 80 x 110 ft. rein.-con., brick, steel and stone addition on State University Campus. About $200,000. Project postponed until October.

Minn., Red Wing—Seminary—Lutheran Ladies Seminary having plans prepared by A. G. Gauger, archt., 302 Central Bank Bldg., St. Paul, for 3 story, 120 x 250 ft. rein.-con., brick and stone. About $400,000.

Kan., Wichita—Fire Station—City election Aug. 12, to vote on $125,000 bonds to build fire station in Riverside Addition. Architect and engineer not selected.

Kan., Wichita—Home—Order of Good Shepherd, 2001 Cleveland Ave., Kansas City, Mo., plans to build 3 story home, on College Hill, here. About $100,000. Architect and engineer not selected.

Kan., Wichita—Hotel—Arkansas Valley Interurban Ry., 120 West 1st St., plans to build 5 story, 90 x 180 ft., on Waco and Douglas Aves. About $100,000. G. Theis, Jr., pres. Architect and engineer not selected.

S. D., Mitchell—Auditorium—City receives bids about Aug. 16, building corn palace auditorium on North Main St. and 6th Ave. About $200,000. G. L. Rappy, 190 North State St., Chicago, archt.

Mo., Fulton — Gymnasium—Westminster College having plans prepared by Holmes & Flinn, archts., 8 South Dearborn St., Chicago, Ill., for 2 story, 70 x 140 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $120,000.

Mo., Nevada—Hotel—L. C. Hornshu having plans prepared by H. R. Primmer, archt., Nevada, for 4 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $250,000.

Mo., Nevada—Sanitorium—L. C. Hornshu having plans prepared by H. R. Primmer, archt., Nevada, for 3 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $200,000.

Mo., St. Louis—Fire Houses—City having plans pprepared for 6 new fire houses. About $360,000. Noted May 27.

Mo., Sedalia—City Hall—City having plans prepared by T. W. Blast, archt., Sedalia, for 2 story, 60 x 90 ft., rein.-con., steel and brick. About $100,000. N. S. Nelson, clk. Noted Jan. 8.

Ark., Ft. Smith—Headquarters—United Mine Workers of America plan to construct headquarters building for Dist. 21. About $100,000. Architect not selected.

Ark., Little Rock—Temple—Arkansas Consistory plans to build 3 story, 140 x 300 ft., rein.-con., brick and steel, temple rein.-con. flooring, concrete foundation, on Scott St. About $700,000. Mann & Stern, 708 A. O. U. W. Bldg., archts.

Tex., Del Rio—Hotel—San Felipe Hotel Co. opens bids in September, building 6 story, rein.-con., brick and stone, concrete flooring. About $225,000. G. Willis, Chandler Bldg., San Antonio, archt. M. L. Diver, Ave. C and Travis St., San Antonio, engr.

Okla., Muskogee — College — Bacone College plans to construct Samuel Richards Memorial Building. E. Richards donated $100,000 for project. Architect and engineer not selected.

Ariz., Mesa—Hospital—Southside Community Hospital, c/o Berlin, Swern & Randall, archts., 19 La Salle St., Chicago, having plans prepared for 1st section to be 3 story, 42 x 100 ft., rein.-con. and terra cotta, rein.-con. flooring, concrete foundation. About $125,000.

Que., Montreal—Bank—City and District Savings Bank, St. James St., soon receives bids building 75 x 85 ft. brick, steel and stone, concrete foundation, on St. Catherine and City Hall Aves. About $150,000.

Que., Montreal — Hotel — United Hotel Co. having plans prepared by Ross & McDonald, archts., 1 Belmont St., for 16 story, 1,000 room, concrete, limestone, steel and brick, on Peel St., to be known Mount Royal. About $8,000,000.

Que., Montreal—Housing—Senneville Development Co. soon receives bids building 42 houses, also sewerage and water systems, on Cote de Neiges Rd. Cost to exceed $250,000.

Que., Sherbrooke — Store — L. P. Steel Chain Store Co. plans to build on Wellington St. About $100,000.

Ont., London—Hall—City plans to build rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $1,250,000. Architect not selected.

Alta., Calgary—Theatre—Allen Theatre Co., Toronto, soon receives bids building concrete, brick and steel on 8th Ave., here. About $350,000.

Alta., Calgary—Theatre—Famous Players Corp. soon receives bids building rein.-con. on 8th Ave. About $500,000.

Alta., Edmonton—Theatre — Trans-Canada Theatre Co., Ltd., 453 Guy St., Montreal, Que., soon receives bids building theatre on Main St., here. About $325,000.

Buildings (Continued)

Cuba, Havana—Hospital—Anglo-Saxon Hospital having plans prepared by Berlin, Swern & Randall, archts., 19 South La Salle St., Chicago, Ill., for 5 story, rein.-con., rein.-con. flooring, concrete foundation. About $600,000.

BIDS DESIRED

Mass., Somerville (Boston P. O.)—Theatre—J. M. Parks, archt., 46 Pritchard Ave., receiving bids building 2 story, brick and steel, rein.-con. flooring, concrete foundation, on Moquin Sq. About $150,000. Owner's name withheld.

Conn., West Hartford (Hartford P. O.)—High School—Until Sept. 1, by Bd. Educ., building 2 story, 200 x 204 ft., brick, concrete, steel and stone, rein.-con. flooring, concrete foundation, on South Main St. About $500,000. W. T. Marchant, 36 Pearl St., Hartford, archt. Noted April 8.

Pa., McKeesport—School—Until Aug. 9, by Bd. Educ., building Centennial School, 2 story, 20 room, brick and fireproof construction. About $325,000. W. T. Morton, secy. Noted July 15.

O., Zanesville—Club—Amer. Rolling Mills Co., Linden Ave., receiving bids building 1 story, 64 x 192 ft. and 2 story, 57 x 113 ft., brick and steel, rein.-con. flooring. About $200,000. F. G. Mueller and W. R. Hair, Rentschler Bldg., Hamilton, archts.

Ind., Fort Wayne—Hospital and Nurses' Home—Until Sept. 3, by Comrs. Allen Co., building two 3 story, 42 x 87 ft. wings to Tuberculosis Hospital also 3 story, 26 x 39 ft. nurses home, brick, 8 mi. north of here. About $115,000. C. R. Weatherhogg, Citizens Trust Bldg., archt. Former bids rejected. Noted June 10.

Mich., Detroit—Club and Temple—Until Aug. 10, by E. C. Wetzel & Co., archts., Dime Bank Bldg., constructing 3 story, 45 x 123 ft. and 50 x 118 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on McDougal Ave. for Wayne Assembly, Order of Amaranth, c/o architects. About $160,000.

Mich., Detroit—Engine House—Until Aug. 2, by H. Brabyn, secy. Bd. Fire Comrs., West Larned St., building 2 story, 50 x 80 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Davison Ave. and Goddard St. About $100,000. C. Kotting, 2306 Dime Bank Bldg., archt.

Mich., Detroit — Schools — Until Aug. 11, by Bd. Educ., 50 Bway, building 46 x 117 ft. addition to Carstens School, on Coplin Ave., cost $200,000; 164 x 206 ft. addition to Jane Cooper School, on Georgia Ave. between Helen and Concord Aves., $330,000; 50 x 125 ft. addition to Nellie Leland School, on Russel and Catherine Sts., $200,000; 58 x 211 ft. Custer School, on Linwood Blvd. and Midland Ave., $300,000; 44 x 120 ft. addition to Crossman School, on Hamilton Blvd. and Taylor Ave., $170,000, each to be 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. Malcolmson, Higginbotham & Palmer, 405 Moffat Bldg., archts. Noted July 8.

Ill., East Moline—Grade School—Until Aug. 9, by School Bd., building 2 story, 48 x 140 ft., brick, rein.-con. flooring, on 17th Ave. and 10th St. About $95,000. Whitsitt & Schulzke, Peoples Bank Bldg., Moline, archts.

Ill., Monticello—School—J. C. Llewellyn, archt., 38 South Dearborn St., Chicago, receiving bids building 2 story, 112 x 172 ft., brick and steel, concrete foundation, for city. About $225,000.

Wis., Milwaukee—Sales—Van Ryn & De Gelleke, archts., Caswell Blk., receiving bids (on revised plans) for 2 story, 60 x 120 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Jackson St., for F. Achen Co., 155 Oneida St. Noted July 8.

Minn., Duluth—Church—Until Aug. 2, by J. Berger, chn. Lakeside Presbyterian Church Comn., building 2 story, 60 x 100 ft. brick and stone, rein.-con. flooring and foundation, on 45th Ave. E. About 100,000. P. M. Olsen, Sellwood Bldg., archt.

Kan., Emporia—Hospital—Until Aug. 2 (change of date), by Lyon Co. Hospital Bd., building 4 story, 40 x 150 ft. rein.-con., flooring. J. H. Felt & Co., 802 Grand Ave., Temple. Kansas City, Mo., archts. Noted July 8.

S. D., Mitchell—Academy—Until Aug. 4, by J. M. Brady, pastor, Holy Family Roman Catholic Church, Sioux Falls, building 3 story 38 x 94 ft. addition to Notre Dame Academy, here, rein.-con., brick, stone and steel. About $100,000. G. C. Hugill, Boyce Greeley Bldg., Sioux Falls, archt.

N. D., Ashley—Court House—Until Aug. 10, by J. Hildenbrand, aud. McIntosh Co., building 2 story, 63 x 94 ft. rein.-con. and brick. About $135,000. Buechner & Orth, 500 Shubert Bldg., St. Paul, Minn., archts.

Que., Verdun—School—Until Aug. 15, by Roman Catholic School Comn., building 3 story, 50 x 95 ft., brick and steel, concrete foundation, on Galt St. About $200,000. E. A. Benoit, 1198 Wellington St., archt.

Ont., Windsor—Hotel—United Border Cities Hotel Co., 17 Ouellette Ave., receiving bids building 10 story 400, room, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $1,500,000. Watt & Blackwell, 79 Adelaide St. E., Toronto, archts. Noted Jan. 29.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Arlington (Boston P. O.)—High School—School Com. let contract building 3 story, 65 x 140 ft., brick and steel, concrete foundation, on Massachusetts Ave., to M. W. Ryan, 2 Central Sq., Cambridge. About $150,000. Noted July 22.

★Mass., Boston—Theatre, etc.—Mowll & Rand, archts., 50 Bromfield St., let contract to G. B. H. Macomber Co., 44 Bromfield St., converting store and office building on Washington and Essex Sts., into theatre, brick, concrete and steel, rein.-con. flooring, for Washington-Essex Bldg. Trustees, 723 Scollay Bldg. About $1,500,000. Noted July 15.

★Mass., Holyoke—Theatre—J. H. Baker, 269 Maple St., let contract building 3 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, to P. J. Kennedy & Co., Inc., 464 Maple St. About $250,000. Noted June 24.

★Mass., Kingston—Hotel—United Fruit Co., Bd. Trade Bldg., Boston, let contract building 3 story brick, rein.-con. and steel addition to Myrtle Bank Hotel, rein.-con. flooring, concrete foundation, here, to Abertham Constr. Co., 27 School St., Boston. About $225,000.

★Mass., Watertown (Boston P. O.)—Bank—Union Market Natl. Bank, Main St., let contract building 1 story, 45 x 80 x 105 ft., brick, stone, concrete and steel, rein.-con. flooring, concrete foundation, to W. H. Iliffe, Irving St. Noted July 1.

★Mass., Worcester—School—Bd. Educ. let contract building 2 story addition to Tatnuck School, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Pleasant St., to L. Rocheford & Son, 44 Front St. About $100,000.

★Conn., Hartford—Business—D. A. Guerriero, archt., 647 Main St., let contract to Southern New England Contg. Co., 173 State St., building 4 story, 32 x 100 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, on Main St., for Pallotti, Andretta Co., 96 Windsor St. About $100,000. Noted May 6.

★Conn., Hartford—Hospital—St. Francis Hospital, Woodland St., let contract building 3 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Woodland, Collins and Ashley Sts., to W. F. O'Neil, 277 Farmington Ave. About $500,000. Noted July 22.

★Conn., Waterbury—Church — O'Connell & Shaw, archts., 18 Boylston St., Boston, let contract to M. A. Durrschmidt, Main St., Derby, building 1 story, brick, concrete and steel, rock foundation, on Southmayo Rd., for St. Peter & Paul Society, 78 Scoville Rd. About $100,000. Noted July 15.

N. Y., Genessee—School—F. B. Gilbert, deputy comr. of educ., Albany received only bid furnishing labor and material building addition to State Normal School, here, from C. A. Foote, Mt. Morris, $96,619.

N. J., West New York (Weehawken P. O.)—School—Bd. Educ. received bids June 30, building school on 18th and Polk Sts., from De Riso Bros., 17 Bline Ave., West New York, $561,484; A. W. Cronin & Sons, Jersey City, $567,000; Dose Eng. Co., 229 5th Ave., New York City, $579,990. Noted June 24.

★Pa., Erie—Bank—Second Natl. Bank, 8th and State Sts., let contract building 1 story, 60 x 130 ft., brick, steel and stone, brick foundation, on 9th St., to H. Shenk, Erie. About $400,000. Noted July 1.

★Pa., Hazleton — Church — Church of Transfiguration let contract building 2 story, 60 x 130 ft., brick and stone, rein. foundation, to H. L. Campbell, Nobl... About $100,000.

★Md., Baltimore—Fire House and Police Station—Comrs. Baltimore Co. let contract let contract building five 2 story, 41 x ... ft., concrete and brick, concrete foundation on Belair Rd., also in towns of Pikesville, Essex, Dundalk and Halethorp, to G. W. Tovell, Eutaw and McCulloch Sts. About $100,000.

★N. C., Morgantown — Hotel — Hotel Co. let contract building 60 ... hotel, to Mackle Constr. Co., Grant Bldg., Atlanta, Ga. About $150,000.

★N. C., Reidsville — Hotel — Reidsville Hotel Co. let contract building 60 ... hotel, to Mackle Constr. Co., Grant Bldg., Atlanta, Ga., $150,000.

★Ala., Mobile—Dept. Store—Gayfer Dept. Store, 171 Dauphin St., let contract remodeling 4 story, 125 x 150 ft. and building 1 story addition rein.-con. brick and steel, rein.-con. flooring, concrete foundation, at 12-20 St. Emanuel St., to Hanson & Harbin, St. Francis St. About $125,000.

★O., Cleveland—Exchange—Cleveland Telephone Co., Engineers Bldg., let contract building 3 story, 80 x 137 ft., rein.-con. steel and brick, rein.-con. flooring, concrete foundation, at 12211 St. Clair Ave., to Lundoff-Bicknell Co., 5716 Euclid Ave. About $300,000.

★O., Cleveland—Temple — Anshi-Emeth-Beth-Tephito Congregation, c/o L. Kohn, 10615 Grantwood Ave., let contract building 2 story, 150 x 240 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on East 105th St. and Hampden Ave. to Edwards Eng. Co., Hippodrome Annex Bldg. About $500,000. Noted Jan. 22.

★O., Columbus — School — Bd. Educ. let contract building 2 story, 110 x 120 ft., rein.-con. and brick, on Fulton St., to E. H. Latham Co., 60 East Broad St., $121,... Noted July 22.

★O., Linden Heights—School—Bd. Educ. let contract building 2 story, irregular shaped, rein.-con. and brick, to E. H. Latham Co., 60 East Broad St., Columbus, $159,447. Noted July 22.

★O., Warren—High Schools—Bd. Educ. let contracts to Shustrump Co., Youngstown, building 2 story, 125 x 150 ft. addition to East Technical High School, $322,... also 2 story, 110 x 182 ft. addition to West Technical High School, $329,869. Noted July 22.

★O., Youngstown—Hospital—City ... contract building 2 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, to Parish Bros., 217 Wick Ave. About $200,000. Noted July 22.

Mich., Detroit — Schools — Bd. Educ., 50 Bway., received bids on masonry work for building (a) Pattengill School, 105 x 200 ft., on Northfield and Spokane Aves., (b) George School, 77 x 159 ft., on Russell and Superior Sts., (c) White School, 58 x 211 ft. and 43 x 111 ft., on Charles Ave., (d) Davison School, 65 x 104 ft., on Roman and Jos. Campau Aves., all 2 story, from F. H. Goddard, 516 Franklin St., (a) $188,860; Cooper-Widemann Co., 1430 Penobscot Bldg., (a) $198,300, (d) $105,600; M. Bartholomaei Son & Co., 466 East Warren Ave., (b) $91,445; F. N. Cooper, 400 Penobscot Bldg., (b) $105,000; N. A. Mahoney, 400 Penobscot Bldg., (b) $113,333; J. Bollin, 906 Bellevue Ave., (c) $256,887; Brayton Eng. Co., 907 Kresge Bldg., (c) $269,719; Corrick Bros., 507 Owen Bldg., (c) $274,500, (d) $110,000; Culbertson & Kelly, 814 Ford Bldg., (d) $96,347; carpentry work, from Harcus & Co., 774 Russel St., (a) $86,834, (b) $33,067, (c) $86,996; E. Thiede, 287 Berlin St., (a) $90,... (b) $33,400, (c) $66,500, (d) $54,500; H. M. Martens Co., 221 Moffat Bldg., (c) $67,200, (d) $52,167; heating, ventilating and plumbing, from Irvine & Meier, 2889 Woodward Ave., (a) $94,272; J. W. Portlan, 51 Park Pl., (b) $56,995, (c) $92,... O'Connor Bros., Vinton Bldg., (b) $60,416, (c) $99,998, (d) $85,741; Drake Avery Co., 40 State St., (c) $120,682. Noted July 8.

★Ill., Chicago — Office — Chicago, Rock Island & Pacific R. R., 110 South Dearborn St., let contract bulding 3 story., 60 x 84 ft., rein-con. and brick, rein.-con. flooring, concrete foundation, on 63rd St. at ... tracks Rock Island R.R., to J. E. Nelson & Sons, 3240 Michigan Blvd. About $100,000.

★Ill., Chicago — Restaurant — Canton Bldg. Corp., c/o Fugard & Knapp and W. E. Perry, archts., 64 East Van Buren St., let general contract building 3 story, 80 x

Buildings (Continued)

111 ft., concrete and brick, concrete foundation, to H. Ericsson Co., 139 North Clark St. About $200,000. Noted May 27.

★**Wis., Milwaukee**—School—School Bd., 16th and Prairie Sts., let masonry contract building 2 story, 170 x 170 ft., on Greenbush St., to P. W. Bringe, 1136 17th St., $108,300.

★**Ia., Cushing**—School—Bd. Educ. let contract building 3 story, 59 x 111 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to W. F. Kucharo & Co., 622 Hubbell Bldg., Des Moines. $111,444. Noted March 11.

★**Ia., Des Moines**—Nurses' Home—Lutheran Hospital Assn. let contract building 3 story, rein.-con., brick and steel, to J. A. Benson, 442 V. N. B. Bldg. About $150,000; cost plus percentage basis.

★**Ia., Larrabee**—School—Bd. Educ. let contract building 3 story, 82 x 139 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to W. F. Kucharo & Co., 622 Hubbell Bldg., Des Moines. About $124,500. Noted Feb. 5.

★**Ia., Morning Sun**—School—Bd. Educ. let contract building 2 story, 56 x 130 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to Western Constr. Co., Earlham, $142,400. Noted April 29.

★**Ia., Packwood**—School—Bd. Educ. let contract building 2 story, 58 x 99 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to W. F. Kucharo & Co., 622 Hubbell Bldg., Des Moines, $92,980. Noted April 15.

★**Ia., Pocahontas**—School—Bd. Educ. let contract building 3 story, 66 x 126 ft., rein.-con., brick and steel, to C. E. Larson, Ft. Dodge, $118,400. Noted June 10.

★**Minn., Buhl**—High School—Bd. Educ. let contract building south section of high school on Chestnut St., 3 story, 108 x 287 ft., rein.-con., brick and steel, to Natl. Contg. Co., Virginia, $292,549; heating and ventilating for north and south sections, to Amer. Heating Co., 228 West Michigan St., Duluth, $145,587; electrical work for north and south sections, to Sterling Electric Co., 33 South 5th St., $38,165.

★**Kan., Linwood**—School—Bd. Educ. let contract building 3 story, 86 x 100 ft. rein.-con. and brick, rein.-con. flooring, to Cork & Ferrier, Manhattan. About $110,600. Noted July 1.

★**Wyo., Rawlins**—Hospital—Bd. Comrs. Carbon Co. let contract building county hospital, to H. Larsen, Rawlins. About $112,000. Noted June 3.

★**Mo., St. Louis**—Store—Central Natl. Bank, Bway. and Olive St., let general contract altering building on 7th and Olive Sts., to R. S. Price, Arcade Bldg. About $100,000.

★**Tex., San Antonio**—Office—Pub. Serv. Corp. let general contract building 3 story, 82 x 140 ft., rein.-con., brick and steel, rein.-con. flooring, on St. Marys St., to C. P. Schoenfeld, 324 Hunstock St. About $163,000.

★**Wash., Pullman**—College—Washington State College let contract building 1 story, 75 x 140 ft., concrete, concrete foundation, to S. G. Morin, 802 5th St. N., Spokane. $103,345.

★**N. F., St. John**—Bank—Royal Bank of Canada, St. James St., Montreal, Que., let contract building 3 story, 76 x 82 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation here, to Dickie Constr. Co., Ryrie Bldg., Toronto, Ont. About $230,000.

★**Ont., Toronto**—School—Separate School Bd., 67 Bond St., let contract building 2 story, 8 room, concrete, brick and steel, rein.-con. flooring concrete foundation, on Beverly St., to H. L. Symons & Co., 43 Scott St. About 100,000.

★**Ont., Toronto**—Theatre—Famous Players Film Corp., Temple Bldg., let contract building 1 and 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation on Danforth and Pape Aves. to N. McLeod, Kent Bldg. About $200,000. Noted May 13.

Federal Government Work

PROPOSED WORK

R. I., Providence—Dismantling Boiler Shop—Spec. 4266, Bureau of Yards & Docks, Navy Dept., Wash., D. C., received no bids July 21, dismantling, here.

D. C., Wash.—Dispensary—Spec. 4226—Bureau Yards & Docks, Navy Dept., soon receives bids building, here; $10 deposit required for plans and spec. Noted June 17.

ROAD WORK—VERMONT

Bids were received by State Highway Comn., Montpelier, for construction 5.6 mi. Federal Aid Project 14, from Dummerston, from (A) Fallkill Constr. Co., 1 Washington Sq., Poughkeepsie, N. Y., (awarded contract); (B) Alco Contr. Co., Boston, Mass.; (C) Walter E. Dix Corp., Springfield; (D) Perini & Sons, Inc., Ashland, Mass. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
34,445 cu.yd. earth excavation	$1 40	$1 80	$1 90
3,011 cu.yd. rock excavation	4 00	6 00	7 00
1,054 cu.yd. borrow	1 40	2 00	2 50
1,479 cu.yd. sub-base of field or quarry stone	2 50	5 00	5 00
Sub-base of gravel, per cu.yd	2 50	2 50	3 00
14,106 cu.yd. gravel surface course	2 81	2 75	2 60
144 cu.yd. concrete, Class A (1-2-4)	28 00	30 00	25 00
402 cu.yd. concrete, Class C (1-3-6)	16 00	29 00	20 00
7,992 lb. reinforcing steel	12	10	07
10,536 lin.ft. wooden guard rail	60	75	1 00
338 lin.ft. 12-in. corrugated pipe culverts	1 00	2 75	2 00
34 lin.ft. 14-in. corrugated pipe culverts	1 50	3 00	2 25
206 lin.ft. 16-in. corrugated pipe culverts	2 00	4 50	2 50
89 lin.ft. relaying pipe culverts	10	2 00	1 10
600 lin.ft. standard underdrain	40	2 50	1 00
100 sq.yd. cobble gutter	1 10	1 50	2 00
Cobble gutter grouted with cement mortar, per sq.yd	1 50	2 00	2 50
2 leaching basins	50 00	100 00	10 00
Extended totals	$124,083	$157,027	$158,149

Bids were received by State Highway Comn., Montpelier, for constructing 13.57 mi. Federal Aid Project No. 12, Dorset-Mt. Tabor-Danby, from (A) Pascal G. Ricci, Rutland; (B) M. H. Ripton, Rochester, N. Y. The unit bids were as follows:

	A	B
47,554 cu.yd. earth excavation	$1 50	$2 25
478 cu.yd. rock excavation	9 50	6 00
4,428 cu.yd. borrow	1 25	2 50
2,892 cu.yd. sub-base of napped field or quarry stone	3 50	5 00
Sub-base of gravel, per cu.yd	3 65	5 00
32,841 cu.yd. gravel surface course	4 50	5 75
485 cu.yd. concrete, Class A (1-2-4)	22 00	25 00
708 cu.yd. concrete, Class C (1-3-6)	20 00	22 00
26,773 lb. reinforcing steel	10	12
21,180 lin.ft. wooden guard rail	75	80
192 lin.ft. 12-in. corrugated pipe culverts	2 00	2 00
646 lin.ft. 14-in. corrugated pipe culverts	2 25	2 50
68 lin.ft. 16-in. corrugated pipe culverts	2 60	3 00
324 lin.ft. 18-in. corrugated pipe culverts	2 80	3 50
400 lin.ft. relaying pipe culverts	50	2 00
200 lin.ft. standard underdrain	1 25	1 00
100 sq.yd. concrete gutter	2 00	3 00
200 sq.yd. cobble gutter	1 25	1 50
Cobble gutter grouted with cement mortar per sq. yd.	1 70	2 00
27 sq.yd. paving	1 50	3 00
4 leaching basins	35 00	50 00
2 drop inlet grates	15 00	10 00
11 cu.yd. broken stone for blind drain	2 00	4 00
20 cu.yd. rip-rap	2 50	6 00
Extended totals	$286,810	$377,490

Bids were received by State Highway Comn., Montpelier, for constructing 4.03 mi. Federal Aid Project No. 15, from South Burlington to Shelburne, from (A) W. T. Thayer & Son, Chateaugay, N. Y., (awarded contract); (B) John Arborio, New Haven, Conn. The unit bids were as follows:

	A	B
2,296 cu.yd. earth excavation	$2 00	$2 10
800 cu.yd. rock excavation	3 00	5 00
7,175 cu.yd. borrow	1 90	2 25
1,166 cu.yd. sub-base of field or quarry stone	5 00	5 50
Sub-base of crushed rock or slag, per cu.yd	6 00	5 50
Sub-base of gravel, per cu.yd	5 00	5 00
4,142 cu.yd. broken stone base course	8 00	6 00
Reconstructed base course stone, per cu.yd	5 00	3 00
Shaping reconstructed base course, per sq.yd	10	3 50
Telford base course, per cu.yd	7 00	6 00
4,142 cu.yd. bituminous macadam surface course	8 00	9 75
111,825 gal. oil asphalt	20	25
Fluxed Bermudex asphalt, per gal		28
Refined tar, per gal		24
37 cu.yd. concrete, Class A (1-2-4)	20 00	28 00
73 cu.yd. concrete, Class C (1-3-6)	15 00	20 00
515 lb. reinforcing steel	15	12
3,640 lin.ft. wooden guard rail	50	75
12-in. corrugated pipe culverts, per lin.ft.	1 25	2 25
132 lin.ft. 18-in. corrugated pipe culverts	1 50	3 75
900 lin.ft. standard underdrain	75	2 00
Cobble gutter, per sq.yd	1 25	1 25
Cobble gutter grouted with cement mortar, per sq.yd	1 75	1 50
Extended totals	$119,697	$132,154

D. C., Wash.—Repairing Wharf and Slips—Spec. 4260—Bureau Yards & Docks, Navy Dept., soon receives bids repairing Wharf 3 and Slips 2 and 3; $10 deposit required for plans and spec.

S. C., Charleston—Improving Boiler Plant—Spec. 4252—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids improving, here; $10 deposit required for plans and spec.

Tex., Del Rio—Sewage Ejector—Treas. Dept., Wash., D. C., received no bids July 22, installing in U. S. Post Office and Courthouse, here, J. A. Wetmore, superv. archt. Noted July 15.

Ariz., Yuma—Secy. of Interior has approved plan for developing 5,000 acres of irrigable lands, known as 2nd unit of Yuma Mesa Auxiliary Project. Election soon to vote on $800,000 for project.

BIDS DESIRED

Mo., St. Louis—Changes in Post Office—Until Aug. 9, by Treas. Dept., Wash., D. C., making changes in U. S. Post Office, here. J. A. Wetmore, superv. archt.

N. M., Ft. Stanton—Remodeling Boiler—Until Aug. 16, by Treas. Dept., Wash., D. C., remodeling boiler at sanatorium, here. J. A. Wetmore, superv. archt.

Oregon—Road Work—Until Aug 3, by Bureau Pub. Rds., U. S. Dept. of Agriculture, Post Office Bldg., Portland, surfacing 7 mi. Medford Klamath Falls Natl. Forest Rd. Project, involving 14,000 cu.yd. crushed rock, 14.5 mi. McKenzie River Natl. Forest Rd., crushed rock or gravel, also improving 2.2 mi. Dead Horse Grade Lane, involving 12 acres clearing, 26,000 cu.yd. excav., one 20 ft. timber span and 500 ft. culvert. C. H. Purcell, dist. engr.

Federal Government Work (Continued)

PRICES AND CONTRACTS AWARDED

(*Indicates award of contract)

★**Me., Portland**—Steel Hangars, Generator Houses, etc.—Chief of Constr. Div., Bldg "C," 7th and B Sts., Wash., D. C., let contract constructing at Coast Defenses here to Forgione & Romano. Noted June 3.

★**N. Y., Brooklyn**—Kitchen and Commissary Equipment—Spec. 4177—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in Bldg. F, at Naval Hospital, here, to J. Hoos Co., 306 South Hanover St., Baltimore, Md., $14,404 (90 days). Noted July 22.

N. Y., New York—Gasoline Storage Shed —Spec. 4224—Bureau of Yards & Docks, Navy Dept., Wash., D. C., received bids building at Navy Yard, here (1) work complete, from W. F. Stewart, Hotel San Remo, New York City, (1) $5,256 (60 days); R. M. Kearns, 692 Washington St., New York City, (1) $5,777 (70 days), (2) $222; Anchor Corrugating Constr. Co., 140 Washington St., New York City, (1) $5,827 (60 days), (2) $6,552 (60 days). Noted July 15.

★**N. Y., New York**—Steel Hangars, Generator Houses, etc.—Chief of Constr. Div., Bldg. "C," 7th and B Sts., Wash., D. C., let contract building at Coast Defenses here and Long Island to Post & McCord, 101 Park Ave.

Pa., Pittsburgh—Gate and Valve Operating Machinery—U. S. Engr. Office, 2111 Farmers Bank Bldg., received lowest 3 bids July 15, furnishing and delivering for Emsworth Dam, Ohio River, (1) Lot "A", (2) Lot "B", from J. and J. B. Milholland Co., 714 5th Ave., (1) $10,576, (2) $15,280; C. Hegewald Co., New Albany, Ind., (2) $19,790; Poole Eng. & Machine Co., Woodberry, (1) $14,406, (2) $24,530. Noted June 24.

★**D. C., Wash.**—Clearing Railroad Bed—U. S. Engr. Office, War Dept., let contract clearing railroad bed from Somoa to North Jetty, Cal., to Mercer-Fraser Co., Eureka, Cal., $13,995.

★**D. C., Wash.**—Fence and Gates—U. S. Engr. Office, War Dept., let contract building 2 mi. fence and 3 gates, at Munitions building between Andrade, Cal., and Algodones, Mexico, to Standard Fence Co., 310 12th St., Oakland Cal., $11263.

★**Mo., St. Louis**—Repairing Boiler Plant Treas. Dept., Wash., D. C., let contract repairing at Marine Hospital, here, to W. Wilby, Selma, Ala., $4,000 (Nov. 1). Noted July 22.

★**Wash., Puget Sound**—Steel Hangars, Generator Houses, etc.—Constr. Quartermaster, Ft. Mason, San Francisco, let contract constructing at Coast Defenses here to Quist & Co., San Francisco. Noted June 3.

★**Cal., San Francisco**—Steel Hangars, Generator Houses, etc.—Constr. Quartermaster, Ft. Mason, let contract building at Coast Defenses here to Lange & Bergstrom, Sharon Bldg. Noted June 3.

Miscellaneous

PROPOSED WORK

Equipment—Secaucus, N. J. (Weehawken P. O.)—N. J. Bd. Comrs. Hudson Co., Jersey City, soon receive bids installing motor power electric plant in power house here. Cost to exceed $30,000.

Asphalt Plant—Phila., Pa.—City plans to build and equip new asphalt plant. About $75,000.

Coal Breaker—Port Blanchard (Pittston P. O.), **Pa.**—Pennsylvania Coal Co., River Rd., having plans prepared for 100 x 400 ft. coal breaker, 125 ft. high, rein.-con. and steel, rein.-con. flooring, rock foundation on main road. About $1,000,000. Noted March 11.

Dam-Koss (Stephenson P. O.), **Mich.**—Marinette & Menominee Paper Co., Marinette, Wis., having plans prepared for 564 ft. concrete dam, 24 ft. wide at bottom with varying thickness at top, equipped with 7 steel tainter gates, each 20 ft. wide and 10 ft. deep, long shute or sluice, 5 ft. wide and 4 ft. deep. Private plans.

Eliminating Grade Crossings—St. Louis Mo.—City having plans prepared for eliminating grade crossings. About $905,000. Noted May 27.

★**Dock—Seattle, Wash.**—See "Industrial Works."

Dock — Owen Sound, Ont. — Dominion Government, Ottawa, plans to build concrete dock here. About $80,000. E. Lafleur, c/o Dept. Pub. Wks., Ottawa, engr.

BIDS DESIRED

Heating System—Comstock, N. Y.—Until Aug. 3, by C. F. Rattigan, supt. state prisons, Capitol, Albany, repairing heating system in cell blocks and cage, at Great Meadow Prison, here; advertised in this issue.

Road Materials—New York, N. Y.—Until Aug. 2, by Bd. Purchase, Mnuicipal Bldg., furnishing and delivering lime, cement, fire clay and other building materials, to Dept. Corrections, also structural steel and rivets to Dept. Plants & Structures.

Piles—Detroit, Mich.—Until Aug. 17, by Bd. Water Comrs., East Jefferson Ave., furnishing and placing 438,000 lin.ft. concrete piles for foundations of filter beds and coagulation basins. H. S. Starkey, secy.; advertised in this issue.

Portland Cement—Detroit, Mich.—Until Aug. 2, by Comrs. Purchases & Supplies, Municipal Courts Bldg., furnishing f. o. b. Detroit, 200,000 bbl. Portland Cement.

Equipment — Jackson, Mich. — G. Brady receiving bids on steam shovel with ¾ or 1 yd. dipper and extra long dipper sticks for use in gravel pits.

Motor Driven Pump, Oil Switches, Air Compressor, etc. — Florence, Wis. — Until Aug. 17 (change of date), by C. R. Johnson, comr. Waterworks Impvt. Dept., furnishing f.o.b. 3 centrifugal motor driven pumps, 2 operating panels equipped with automatic controllers, meters and oil switches, etc. W. G. Kirchoffer, 31 Vroman Blk., Madison, engr. Noted July 22.

Cement—Minneapolis, Minn.—City receiving bids for 2,000 bbl. cement, crushed rock. K. E. Alexander, city purch. agt.

Culverts—St. Joseph, Mo.—Until Aug. 9, by State Highway Dept., at St. Joseph, building culverts on 20.02 mi. Sect. "B" St. Joseph-Atchison Rd., 24 ft. wide, Federal Aid Project 49, involving 376.6 cu.yd. Class "B" and 230.4 cu.yd. Class "C" concrete masonry, 29,748 lb. reinforcement for concrete masonry, 2,916 lin.ft. 15-36 in. rein.-con. pipe culverts, and 28 lin.ft. relaid pipe culvert, cost $29,657.

A Sign of Prosperity

This issue contains

Notice of Bids

to be opened for

63 Streets and Roads
13 Sewers
3 Water-works
18 Bridges
13 Excavation and Dredging
7 Industrial Works
33 Buildings
18 Federal Government
10 Miscellaneous

Totaling Millions of Dollars

Dam—Montreal, Que.—Until Aug. 2, by Water Bd. building dam across aqueduct near Vedun Asylum.

Paving Blocks—Outremount, Que.—City receiving bids furnishing 240,000 paving blocks. About $30,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Ferry Boat — Boston, Mass. — City received bids July 20, building (a) 1 ferry boat, (b) 2 ferry boats, from Winnisimmet Shipyard, Inc., Boston, (a) $335,000 (12 mo.), (b) $655,000 (15 mo.); Groton Iron Wks., Eastern Point, Groton, Conn., (a) $379,950 (8 mo.), (b) $743,840 (9 mo.); Bath Iron Ltd., (a) $387,000 (9 mo.), (b) $740,000 (10½ mo.).

★**Granite Edgestone — Boston, Mass.**—City let contract furnishing 30,000 lin.ft. straight granite curbstone, to Lombard Granite Co., 279 Rutherford Ave. Noted July 22.

Road Materials—Boston, Mass.—City received bids furnishing 50,000 gal. hot tar and 50,000 gal. cold tar patching material from Independent Coal Tar Co., 26 Broad St., $0.21 per gal.; 200,000 vitr. paving bricks, from J. W. Hahn, 166 Devonshire St.

★**Ventilating System — Boston, Mass.**—Commonwealth of Massachusetts let contract installing ventilating system in various rooms at State House to Cleghorn Co., 54 Batterymarch St., $55,310.

★**Pier and Approach—Everett, Mass.**—Merrimac Chemical Co., 148 State St., Boston, let contract building rein.-con. pier, approach and foundation, here, to Aberthaw Constr. Co., 27 School St., Boston. About $50,000.

★**Bulkhead and Dock—Bridgeport, Conn.**—Crane Co., South Ave., let contract building 250 ft. bulkhead and 200 ft. dock on wood pile foundation, to T. J. Pardy Constr. Co., 1481 Seaview Ave. About $60,000.

★**Excavators — Syracuse, N. Y.**—Onondaga Co. let contract for two model 4 Keystone excavators, to Keystone Drilling Co., Beaver Falls, Pa., $12,398. Noted July 15.

★**Foundations—Baltimore, Md.**—Prest-O-Lite Co., Inc., let contract building foundations for eight 1 and 2 story, brick and steel buildings, rein.-con. flooring, concrete foundations, averaging 25 x 50 ft. each, to West Constr. Co., 207 Amer. Bldg. Total cost $125,000.

★**Pumps—Cleveland, O.**—City let contract furnishing and installing two 8,000,000 gal. and one 4,000,000 gal. motor driven vertical centrifugal pumps with motors, electrical equipment, etc., to Dravo-Doyle Co., Diamond Bank Bldg., Pittsburgh, Pa., $20,736. Noted July 15.

Creosoted Block—Milwaukee, Wis.—City received bids July 6, furnishing 9,000 sq.yd. creosoted blocks for reconstructing roadway on 27th St. viaduct, from Dean Constr. Co., 82 Wisconsin St., $45,405; Blodgett-Clayton Constr. Co., 204 Grand Ave., $46,340; noted July 1 under "Bridges."

★**Structural Steel—Milwaukee.**—City let contract furnishing 125 ton structural steel for reconstructing roadway of 27th St. viaduct, to Worden-Allen Co., Port Washington Rd., $19,595. Noted July 1, under "Bridges."

★**Foundation—Owen, Wis.**—Clark Co. let contract building foundation for 2 story, 46 x 200 ft. brick and concrete, asylum, to E. F. Bauman, Monroe. About $74,000. Noted May 27.

★**Foundation—West Allis, Wis.** (Milwaukee P. O.)—St. Aloysius Church, 521 Murray Ave., Milwaukee, let contract building foundation for 2 story, 60 x 100 ft., rein.-con. and brick school, rein.-con. flooring, concrete foundation, on Greenfield Ave., here, to G. Kahn, 114 Grand Ave. Noted July 22, under "Buildings."

Culverts—Tipton, Ia.—Cedar Co. let contracts building concrete culverts in various streets, Item 1109 and Group M., to V. L. Hanssen, Monticello, $20,858; Items 1111-1115 inc., to J. Anderson & Son, Maquoketa, $37,953; Group L to A. P. Munsen, Marion, $27,671; Groups N and O to Vintop Eng. & Constr. Co., Vinton, $19,689; Groups P and S, to Wickes Eng. & Constr. Co., 1160 13th St., Des Moines, $20,250; Groups T and U, to S. R. Johnston, Tipton, $16,220. Noted June 3.

★**Breakwater—Corpus Christi, Tex.**—City let contract building riprap breakwater in Corpus Christi Bay, to D. M. Picton & Co., Corpus Christi. About $570,000. Noted May 20.